

Location:	JRU DI 7 Sawtooth 114H	
Spill Date:	1/5/2025	
Area 1		
Approximate Area =	1200.00	sq. ft.
Average Saturation (or depth) of spill =	0.50	inches
Average Porosity Factor =	0.25	
VOLUME OF LEAK		
Total Crude Oil =		bbls
Total Produced Water =	5.00	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =		bbls
Total Produced Water =	5.00	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =		bbls
Total Produced Water =	4.00	bbls

October 24, 2025

XTO Energy Inc
6401 Holiday Hill Road
Midland, TX 79707

Attn: New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico, NM 87505

RE: Remediation Closure Report
XTO Energy Inc
JRU DI 7 Sawtooth 114H
NMOCD I.D. nAPP2500726282
32.3402100, -103.8175507
Eddy County, New Mexico
Terracon Project No. AR257002

Terracon Consultants, Inc. (Terracon) is pleased to submit this Remediation Deferral Request on behalf of XTO Energy Inc, (XTO) for the site referenced above. The report is prepared in accordance with the New Mexico Oil Conservation Division (NMOCD) regulations governing Oil and Gas Releases (19.15.29 NMAC). A brief chronology of project history is included with updated information on soil remedial activities.

Project History

- **January 6, 2025:** A release of produced water was reported by XTO Energy Inc at the JRU DI 7 Sawtooth 114H.
- **February 24, 2025 to June 15, 2025:** Terracon personnel were unable to access the location of the release due to ongoing fracking activities. During this time XTO and Terracon were communicating weekly to coordinate environmental investigation/remedial efforts.
- **June 16, 2025:** Terracon personnel were permitted to access the site and collect initial delineation samples. The initial sampling program did not fully delineate the extent of the release. Comparison of the initial release photos and maps with the documentation during the sampling effort indicated that the area impacted by the release had increased in size, likely due to precipitation events during the spring and early summer months.
- **July 22, 2025:** Terracon Personnel returned to the site to initiate the remediation and collect vertical delineation samples (DVS-4 and DVS-5). The vertical delineation was successful.
- **July 22, 2025 through October 2, 2025:** Terracon personnel completed the remediation of impacted soils at the JRU DI 7 Sawtooth 114H. Terracon additionally completed a desktop Karst survey of the location to verify remediation action levels for the soils that remain In-Situ for the on-pad remediation. The desktop Karst Survey Report is included in the Appendix.

Site Information

The following table provides detailed information regarding the Remediation information for the on-pad produced water release at the JRU DI 7 Sawtooth 114H site in Eddy County, New Mexico.

Required Information	Site and Release information	
Responsible Party:	The site is operated by XTO Energy Inc. OGRID #: 5380	
Local Contact:	Contact: Mr. Colton Brown	P: (575) 988-2390 E: colton.s.brown@exxonmobil.com
Site Name API #	JRU DI 7 Sawtooth 114H 30-015-55006	
Facility Description:	JRU DI 7 Sawtooth 114H, Incident No. nAPP2500726282, is a well location located in Eddy County, New Mexico. It is an area located within Unit A, Section 06, Township 23 South, Range 31 East, approximately 16.5 miles northeast of Loving, New Mexico. The area around the site is predominantly undeveloped native Federal-owned pastureland. A Topographic Map and Site location Map are included in Appendix A, Exhibit 1, and Exhibit 2, respectively.	
NMOCD Incidents:	While fracking 114H Green Well, stage 59, at 11,097 psi, a failure occurred in the 3" wing on the front side bleed off, on top of the missile.	
Type of Discharge:	Produced Water / Incident ID No: nAPP2500726282	
Quantity Spilled:	Total Fluids: 5 Bbl Volume recovered: 4 Bbl	
Site Characteristics:	Relatively flat with drainage following the natural ground surface; sloping very gently southerly.	
Immediate Corrective Actions:	The treater immediately noticed the pressure drop and shut down the stage. The crew utilized a vacuum truck on site to recover 4 bbl. of the spilled completions fluid. Red Zones were established and respected at the time of equipment failure.	

General Site Characteristics

Physical Characteristic	Site Ranking Characteristics
Groundwater Boring Location Map (Appendix A, Exhibit 4)	<u>Boring Information:</u> (C-02960-EXPL) <u>Depth of Well:</u> Unknown <u>Depth to Water:</u> >50 ft. bgs <u>Distance to Well:</u> 0.41 miles to the northwest <u>Date Drilled:</u> March 18, 2003 <u>Groundwater Quality:</u> Water quality information was not available for this report; however, groundwater in the area of the site is predominantly for industrial use.
Surface Water Wetland Area Map (Appendix A, Exhibit 5)	The Pecos River is 12.63 miles southwest. There are no lakebeds, sink holes or playa lake identified within 1 miles.
100-Year Flood Plain	This site is located outside of the 100-year flood plain.

Physical Characteristic	Site Ranking Characteristics
Karst Characterization Cave Karst Public UCP Map – (Appendix A, Exhibit 6)	A review of the geospatial data obtained from the Bureau of Land Management (BLM) Carlsbad Field Office website indicated that the site is within an area of medium risk for Karst formations, as indicated in the Cave Karst Public UCP Map (Appendix A, Exhibit 5).

Regulatory Framework and Response Action Levels

Oil and gas exploration and production facilities in New Mexico are generally regulated by the New Mexico Oil Conservation Division (NMOCD). Standards governing the remediation and reclamation of sites impacted by releases from oil and gas exploration and production activities are contained in 19.15.29 NMAC.

Remediation Levels (Surface to 4 ft bgs)

The below remediation Limits for BTEX (includes benzene, toluene, ethylbenzene, and xylenes), and benzene, chlorides and TPH (GRO+DRO+MRO), are defined within New Mexico Administration Code (NMAC) 19.15.29.12 and in the NMOCD guidance document "Procedures for Implementation of the Spill Rule" dated September 6, 2019.:

Parameters	Closure Criteria	Analytical Method
Total Benzene, Toluene, Ethylbenzene and Xylenes (Total BTEX)	50 mg/kg	EPA Method 8021B
Benzene	10 mg/kg	EPA Method 8021B
Chlorides	600 mg/kg	EPA Method 300
Total Petroleum Hydrocarbons (TPH) GRO, DRO and MRO	100 mg/kg	EPA SW-846 Method 8015M

Site Assessment/Delineation

Initial site assessment activities were conducted from June 16, 2025 through July 22, 2025. This work included collecting 12 delineation soil samples from 9 locations (VDS-1 through VDS-3, DVS-4 through DVS-5, and HDS-1 through HDS-4). The soil samples were collected using a hand auger from depths ranging from 0.5-feet bgs to 5.0-foot bgs. The soil samples were submitted for analysis of BTEX, Chloride and TPH. BTEX was not detected in any of the 12 soil samples collected. TPH exceeded NMOCD remediation action levels (RALs) in soil samples VDS-2 (0.5') with a concentration of 1414.7 milligrams per kilogram (mg/kg), and VDS-2 (1') with a concentration of 219 mg/kg. Chloride was detected at levels exceeding the NMOCD RALs in nine of the 12 soil samples collected, ranging from 20,400 mg/kg in soil sample VDS-3 (0.5') to 752 mg/kg in soil samples HDS-1 (0.5'). The sample locations are depicted on the Delineation Map, the Laboratory Analytical Report and the Chain of Custody are included in the attached Exhibits, and Appendix A.

Remediation Timeline and Closure Activities

Remediation activities were conducted from July 7, 2025, through October 3, 2025. This work consisted of excavation and removal of soil that exceeded NMOCD RALs. The material remaining in place does not exceed NMOCD RALs. Additionally, Terracon completed a desktop Karst survey to evaluate for the presence or absence of karstic features within the vicinity of the remediation.

An area estimated at 9,000 square feet (sq. ft.) was excavated to a depth of between 6-inches to 3.5-feet bgs as shown in Exhibit 7.1. The excavated material was stockpiled on site and disposed of at a Lea Land disposal facility. A total of 67 composite confirmation soil samples were collected from 45 locations within the floor of the excavation (CFS-1 through CFS-45.2), five-point composite samples were collected in 200 square foot intervals. The soil samples collected were submitted for analysis of BTEX, Chloride and TPH. Three confirmation floor samples, CFS-10 (1.0'), CFS-16 (0.5'), and CFS-30 (1.0') exceeded the NMOCD RALs for TPH, at a maximum concentration of 2,691.9 mg/kg. A total of 22 confirmation floor samples exceeded the NMOCD RALs for chloride. The areas that exhibited elevated TPH and chloride concentrations were subject to additional excavation activities as shown in Exhibit 7.1 and 7.2. The results from the subsequent sampling on October 2, 2025, were below the NMOCD RALs.

A total of 10 composite soil samples were collected from the walls of the excavation (CWS-N, CWS-S, CWS-E, CWS-W and CSW-1 through CSW-6). The soil samples collected were submitted for analysis of BTEX, Chloride and TPH. BTEX and TPH were not detected in any of the wall samples. All confirmation wall soil samples had detections for chloride, only four exceeded the NMOCD RALs for Chloride. Chloride concentrations ranged from 688 mg/kg in sample CWS-S (surface to 2.5 ft bgs) to 1,150 mg/kg in sample CWS-N (surface to 0.5 ft bgs). The walls that exceed NMOCD RALs for chloride were excavated approximately 3-feet horizontally. The final composite confirmation wall samples were collected, and the results for these samples were below the NMOCD RALs.

In total, a volume of approximately 888 cubic yards of impacted soil was excavated and disposed of at Lea Land Disposal Facility. Once the closure criteria was attained, the excavation was backfilled with suitable backfill material, imported from the Lea Land facility. A Confirmation Sample Location Map depicting the confirmation sample locations and excavation areas is included as Exhibits 7.1 and 7.2. Exhibit 7.1 shows the boundary of the initial remediation efforts while Exhibit 7.2 shows the additional remediation efforts that were conducted. Confirmation floor sample results, and confirmation wall sample results are provided as Table 2 and Table 3, respectively. The laboratory analytical reports along with the chain of custody are provided in the Appendix.

Deferral Area Request

During Terracon's investigation and remediation activities it was determined that the areas immediately around the well heads could not be safely remediated. Due to XTO's and Terracon's internal safe right procedures. No excavation can be safely conducted within a 10-foot radius of the wellheads or other operational equipment at the site. Please refer to Exhibit 8 Deferral Map in the Appendix for the representation of the area requested for deferral. Additionally, see our wall samples (CSW-1 through CSW-6 and CWS-N, CWS-W, CWS-S, CWS-E) for horizontal delineation justification and our vertical samples (DSV-4 and DSV-5) for vertical delineation. Delineation is complete, and justification for deferral of the impacted soils immediately surrounding the wellhead has been provided.

Recommendations

In accordance with NMAC 19.15.29.12, remediation of the impacted material is complete, and XTO Energy Inc respectfully requests deferral of incident nAPP2500726282 that occurred at the JRU DI 7 Sawtooth 114H location.


We believe the work described in the attached closure report completes the remedial requirements for the site, and we respectfully request NMOCD consider the incident nAPP2500726282 closed.

Terracon appreciates this opportunity to provide environmental services to XTO Energy Inc. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,
Terracon



Austin Worley
Assistant Project Manager



John Grams, PG (TX)
Senior Geologist

Tables

Figures

Appendix A – Terracon Karst Survey

Appendix B – Laboratory Data Packages


TABLES

Table 1 – Soil Analytical Results Summary – Release
Assessment


Table 2 – Confirmation Results (Floors)

Table 3 – Confirmation Results (Walls)


Table 1
Soil Analytical Results Summary - Release Assessment
Terracon Project Code: AR257002
NMOCD Reference No. nAPP2500726282

Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Release Assessment											
VDS-1	6/16/2025	0.5	HA-Grab		10,400	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
	6/16/2025	1.0	HA-Grab		4,160	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
VDS-2	6/16/2025	0.5	HA-Grab		11,700	<0.050	<0.300	1,414.7	<10.0	1380	34.7
	6/16/2025	1.0	HA-Grab		8,800	<0.050	<0.300	219	<10.0	219	<10.0
VDS-3	6/16/2025	0.5	HA-Grab		20,400	<0.050	<0.300	40.4	<10.0	40.4	<10.0
	6/16/2025	1.0	HA-Grab		14,000	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
DVS-4	7/22/2025	5.0	HA-Grab		112	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
DVS-5	7/22/2025	5.0	HA-Grab		128	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
HDS-1	6/16/2025	0.5	HA-Grab		752	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
HDS-2	6/16/2025	0.5	HA-Grab		752	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
HDS-3	6/16/2025	0.5	HA-Grab		1,410	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
HDS-4	6/16/2025	0.5	HA-Grab		16.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
NMOCD Reclamation Standards ³ (Surface to 4 ft bgs)					600	10	50	100	N/A		
<div>1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes</div> <div>2. TPH = Total petroleum hydrocarbons</div> <div>3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegatation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft.</div> <div>ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL).</div> <div>NA = Not Analyzed</div> <div>Bold denotes concentrations above applicable laboratory SDLs.</div> <div>Bold and Highlighted values exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.</div> <div>In-situ = Sample is representative of material which remains in-place at the site.</div> <div>Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.</div>									Data Entry:	Zach Mueller	9/22/2025
									Reviewed By:	Joseph Guesnier	10/17/2025
									<div> Terracon</div> <div>Explore with us</div>		

JRU D12 Battery
Table 2 - Confirmation Results (Floors)
Terracon Project Code: AR257002
NMOCD Reference No. nAPP2500726282

Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Confirmation Table											
CFS-1	7/22/2025	2.0	Comp	In-situ	48.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-2	7/22/2025	2.0	Comp	In-situ	96.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-3	7/22/2025	2.0	Comp	In-situ	96.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-4	7/22/2025	2.0	Comp	In-situ	272	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-5	7/22/2025	2.0	Comp	In-situ	192	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-6	7/22/2025	2.0	Comp	In-situ	224	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-7	7/22/2025	2.0	Comp	In-situ	400	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-8	7/22/2025	2.0	Comp	In-situ	224	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-9	7/22/2025	1.0	Comp	Excavated	1,260	<0.050	<0.300	12.0	<10.0	12.0	<10.0
CSF-9.2	10/2/2025	2.0	Comp	In-situ	336	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-10	7/22/2025	1.0	Comp	Excavated	1,520	<0.050	<0.300	104.5	<10.0	90.3	14.2
CSF-10.2	10/2/2025	2.0	Comp	In-situ	288	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-11	7/22/2025	1.0	Comp	Excavated	1,490	<0.050	<0.300	79.0	<10.0	79.0	<10.0
CSF-11.2	10/2/2025	2.0	Comp	In-situ	240	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-12	7/22/2025	1.0	Comp	Excavated	800	<0.050	<0.300	17.9	<10.0	17.9	<10.0
CSF-12.2	10/2/2025	2.0	Comp	In-situ	<16.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-13	7/22/2025	1.0	Comp	In-situ	64.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-14	7/22/2025	2.0	Comp	Excavated	1,100	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSF-14.2	10/2/2025	3.0	Comp	In-situ	<16.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-15	7/22/2025	1.0	Comp	In-situ	176	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-16	7/22/2025	0.5	Comp	Excavated	832	<0.050	<0.300	2,691.9	11.9	2,680	<10.0
CSF-16.2	10/2/2025	1.0	Comp	In-situ	592	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-17	7/22/2025	1.5	Comp	Excavated	752	<0.050	<0.300	30.7	<10.0	30.7	<10.0
CSF-17.2	10/2/2025	2.0	Comp	In-situ	<16.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-18	7/22/2025	1.0	Comp	Excavated	640	<0.050	<0.300	20.9	<10.0	20.9	<10.0
CSF-18.2	10/2/2025	1.5	Comp	In-situ	<16.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-19	7/22/2025	1.0	Comp	Excavated	1,060	<0.050	<0.300	27.7	<10.0	27.7	<10.0
CSF-19.2	10/2/2025	1.5	Comp	In-situ	96.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-20	7/22/2025	1.0	Comp	Excavated	672	<0.050	<0.300	24.2	<10.0	24.2	<10.0
CSF-20.2	10/2/2025	1.5	Comp	In-situ	64.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-21	7/22/2025	2.0	Comp	In-situ	480	<0.050	<0.300	21.5	<10.0	21.5	<10.0
CFS-22	7/22/2025	2.0	Comp	In-situ	528	<0.050	<0.300	36.1	<10.0	36.1	<10.0
CFS-23	7/22/2025	2.0	Comp	In-situ	448	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-24	7/22/2025	2.0	Comp	Excavated	1,280	<0.050	<0.300	10.5	<10.0	10.5	<10.0
CSF-24.2	10/2/2025	3.0	Comp	In-situ	<16.0	<0.050	<0.300	<10.0	<10.0	10.5	<10.0
CFS-25	7/22/2025	2.0	Comp	Excavated	1,740	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSF-25.2	10/2/2025	3.0	Comp	In-situ	32.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-26	7/22/2025	2.0	Comp	In-situ	192	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-27	7/22/2025	2.0	Comp	In-situ	272	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-28	7/22/2025	1.0	Comp	In-situ	432	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-29	7/22/2025	1.0	Comp	In-situ	432	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-30	7/22/2025	1.0	Comp	Excavated	512	<0.050	<0.300	182	<10.0	182	<10.0
CFS-31	7/22/2025	1.0	Comp	Comp	Excavated	656	<0.050	<0.300	<10.0	<10.0	<10.0
CSF-31.2	10/2/2025	1.5	Comp	In-situ	96.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-32	7/22/2025	1.0	Comp	Excavated	1,100	<0.050	<0.300	33.4	<10.0	33.4	<10.0
CSF-32.2	10/2/2025	1.5	Comp	In-situ	80.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-33	7/22/2025	1.0	Comp	In-situ	224	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-34	7/22/2025	1.0	Comp	In-situ	432	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-35	7/22/2025	1.0	Comp	In-situ	192	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-36	7/22/2025	1.0	Comp	In-situ	240	<0.050	<0.300	20.9	<10.0	20.9	<10.0
CFS-37	7/22/2025	1.0	Comp	Excavated	4,520	<0.050	<0.300	54.5	<10.0	54.5	<10.0
CSF-37.2	10/2/2025	3.5	Comp	In-situ	112	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-38	7/22/2025	2.5	Comp	Excavated	1,120	<0.050	<0.300	67.4	<10.0	67.4	<10.0
CSF-38.2	10/2/2025	3.5	Comp	In-situ	64.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-39	7/22/2025	2.5	Comp	Excavated	832	<0.050	<0.300	23.2	<10.0	23.2	<10.0
CSF-39.2	10/2/2025	3.5	Comp	In-situ	256	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-40	7/22/2025	1.5	Comp	In-situ	576	<0.050	<0.300	25.2	<10.0	25.2	<10.0
CFS-41	7/22/2025	1.0	Comp	Excavated	1,040	<0.050	<0.300	83.0	<10.0	83.0	<10.0
CSF-41.2	10/2/2025	2.0	Comp	In-situ	64.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-42	7/22/2025	1.0	Comp	Excavated	672	<0.050	<0.300	42.3	<10.0	42.3	<10.0
CSF-42.2	10/2/2025	2.0	Comp	In-situ	128	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-43	7/22/2025	1.0	Comp	Excavated	2,840	<0.050	<0.300	45.5	<10.0	45.5	<10.0
CSF-43.2	10/2/2025	2.0	Comp	In-situ	80.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-44	7/22/2025	1.0	Comp	Excavated	720	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSF-44.2	10/2/2025	1.0	Comp	In-situ	192	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CFS-45	7/22/2025	1.0	Comp	Excavated	752	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSF-45.2	10/2/2025	1.0	Comp	In-situ	80.00	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
NMOCD Remediation Standards ⁴ (Greater than Depths of 4 ft bgs)					600	10	50	100	N/A		
1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes 2. TPH = Total petroleum hydrocarbons 3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas 4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018 ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL). N/A = Not Applicable Bold denotes concentrations above applicable laboratory SDLs. Bold and Highlighted values exceed the NMOCD Reclamation and/or Remediation and Delineation Standards. In-situ = Sample is representative of material which remains in-place at the site. Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.									Data Entry:	Zach Mueller	9/22/2025
										Mandi Cacy	10/13/2025
									Reviewed By:	Joseph Guesnier	10/20/2025
											

JRU D12 Battery
Table 3 - Confirmation Results (Sidewalls)
Terracon Project Code: AR257002
NMOCD Reference No. nAPP2500726282

Sample ID	Sample Date	Sample Start Depth (ft bgs)	Sample End Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
						EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Confirmation Wall Samples												
CWS-N	7/22/2025	0.0	0.5	Comp	Excavated	1,150	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CWS-E	7/22/2025	0.0	2.5	Comp	Excavated	832	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CWS-S	7/22/2025	0.0	2.5	Comp	Excavated	688	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CWS-W	7/22/2025	0.0	1.0	Comp	Excavated	848	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSW-1	10/2/2025	0.0	2	Comp	In-situ	32.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSW-2	10/2/2025	0.0	2	Comp	In-situ	64.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSW-3	10/2/2025	0.0	2	Comp	In-situ	304	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSW-4	10/2/2025	0.0	1.5	Comp	In-situ	304	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSW-5	10/2/2025	0.0	3.5	Comp	In-situ	128	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
CSW-6	10/2/2025	0.0	3.5	Comp	In-situ	64.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0
NMOCD Reclamation Standards ³ (Surface to 4 ft bgs)						600	10	50	100	N/A		
1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes 2. TPH = Total petroleum hydrocarbons 3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL). N/A = Not Applicable Bold denotes concentrations above applicable laboratory SDLs. Bold and Highlighted values exceed the NMOCD Reclamation and/or Remediation and Delineation Standards. In-situ = Sample is representative of material which remains in-place at the site. Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.										Data Entry:	Zach Mueller	9/22/2025
											Mandi Cacy	10/13/2025
										Reviewed By:	Joseph Guesnier	10/17/2025
												

EXHIBITS

Exhibit 1 – Topographic Map

Exhibit 2 – Site Location Map

Exhibit 3 – Delineation Map

Exhibit 4 – NMOCD POD Location Map

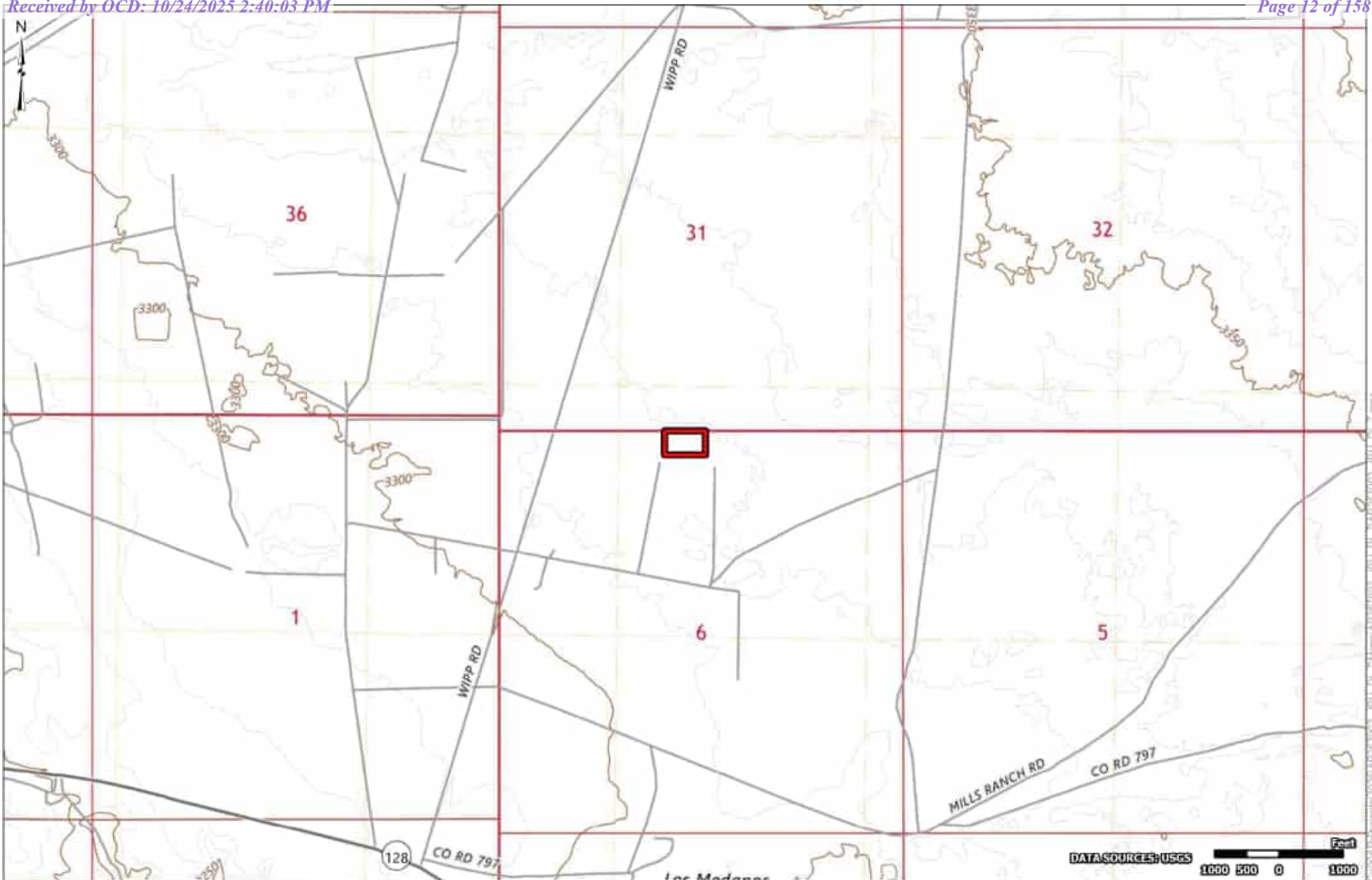
Exhibit 5 – Designated Wetland Area Map


Exhibit 6 – Cave Karst Public UCP Map

Exhibit 7.1 - Confirmation Floor Sample Map

Exhibit 7.2 - Confirmation Wall Sample Map

Exhibit 8 - Deferral Map



 Site Boundary

Project No.:
AR257002
Date:
Sep 18 2025
Drawn By:
JWL
Reviewed By:
AHW

Terracon
5847 50th St
Lubbock, TX
PH. 806-300-0140 terracon.com


Topographic Map

JRU DI 7 Sawtooth
32.34021, -103.81755
Carlsbad, Eddy County, New Mexico


Exhibit

1



 Site Boundary

Project No.:
AR257002
Date:
Sep 18 2025
Drawn By:
JWL
Reviewed By:
AHW

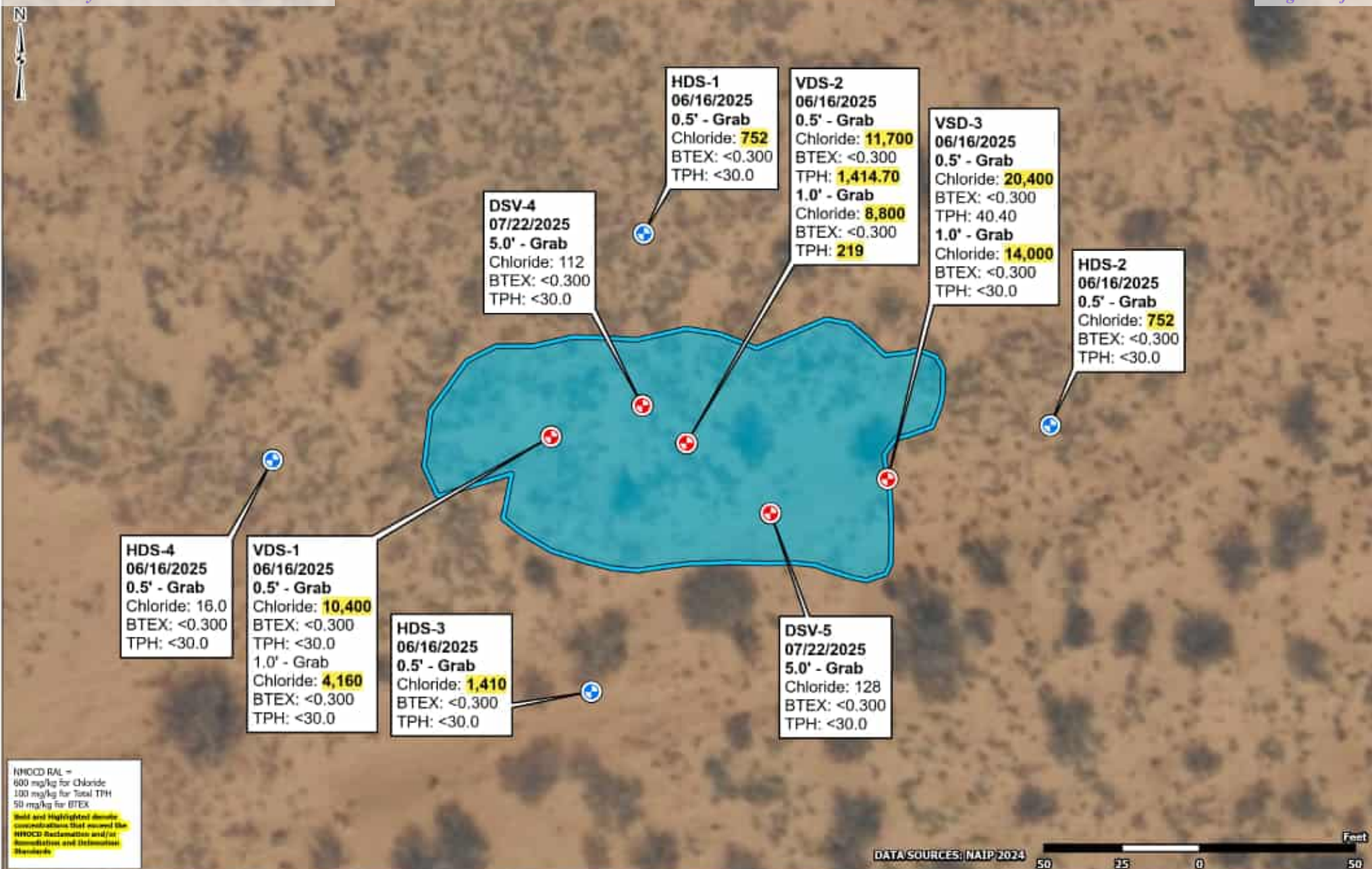

5847 50th St
Lubbock, TX
PH. 806-300-0140 terracon.com

Site Location Map

JRU DI 7 Sawtooth
32.34021, -103.81755
Carlsbad, Eddy County, New Mexico

Exhibit

2



- Vertical Delineation Sample
- Horizontal Delineation Sample
- Inferred Release (10,300 Sq Ft)

Project No.:
AR257002

Date:
Sep 23 2025

Drawn By:
JWL

Reviewed By:
AHW



5847 50th St
Lubbock, TX

PH. 806-300-0140

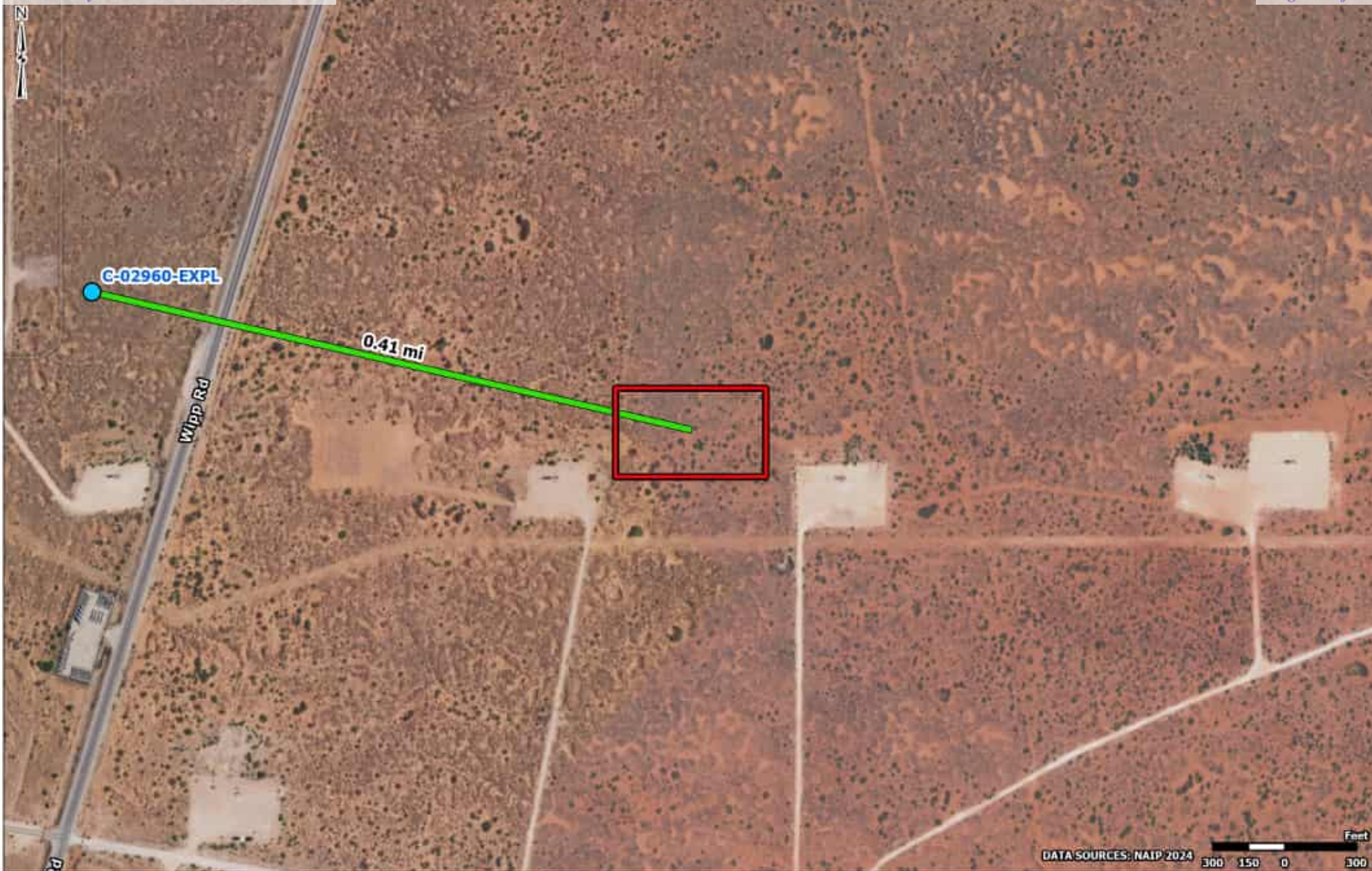
terracon.com

Delineation Map

JRU DI 7 Sawtooth
32.34021, -103.81755
Carlsbad, Eddy County, New Mexico

Exhibit

3



- Site Boundary
- NMOSE POD Location

Project No.:
AR257002
Date:
Sep 18 2025
Drawn By:
JWL
Reviewed By:
AHW

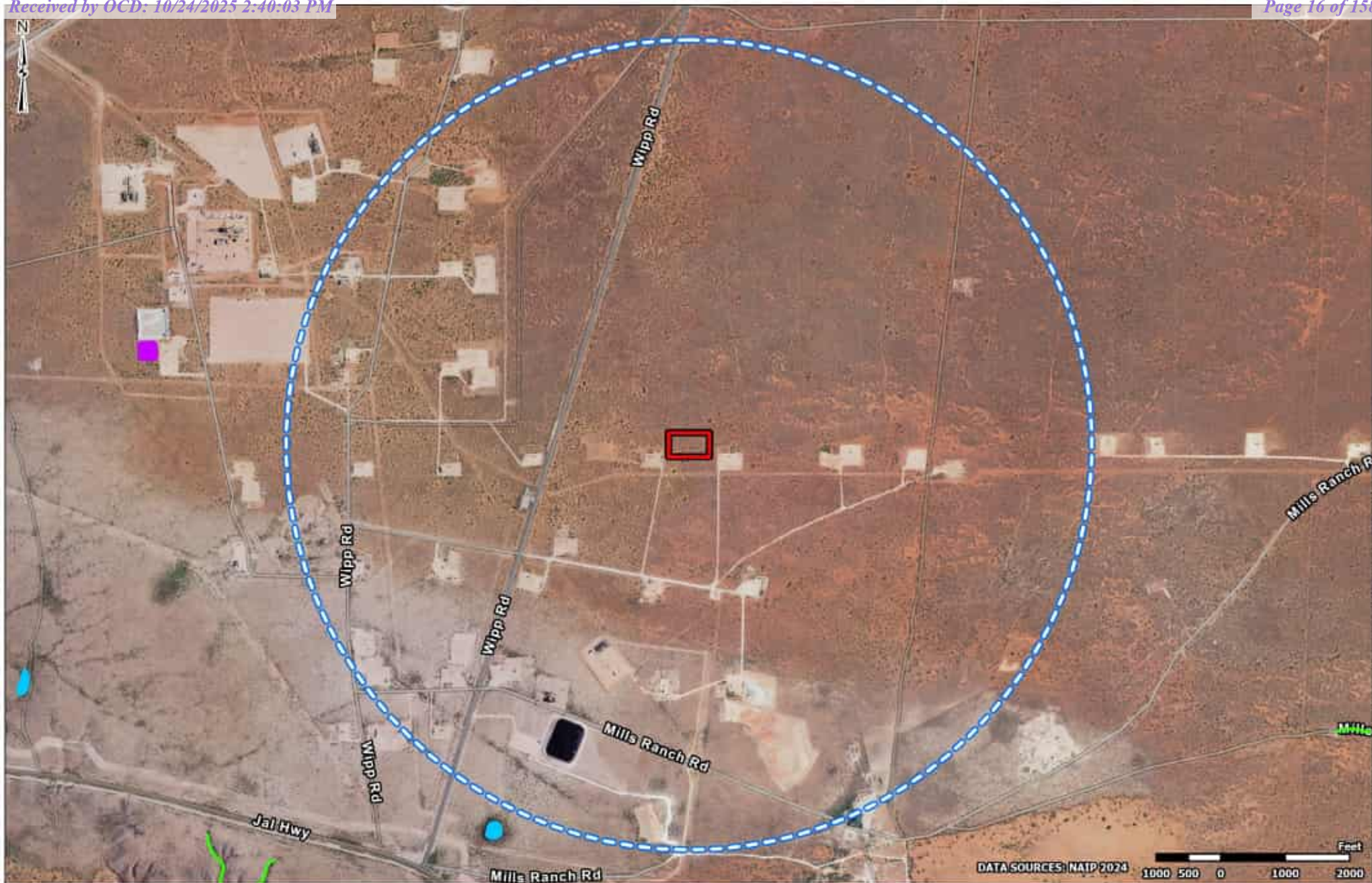
Terracon
5847 50th St
Lubbock, TX
PH. 806-300-0140
terracon.com

NMOSE POD Location Map

JRU DI 7 Sawtooth
32.34021, -103.81755
Carlsbad, Eddy County, New Mexico

Exhibit

4



- Site Boundary
- 1-Mile Radius
- Freshwater Emergent Wetland
- Freshwater Pond
- Riverine

Project No.:
AR257002

Date:
Sep 18 2025

Drawn By:
JWL

Reviewed By:
AHW

Terracon

5847 50th St
Lubbock, TX

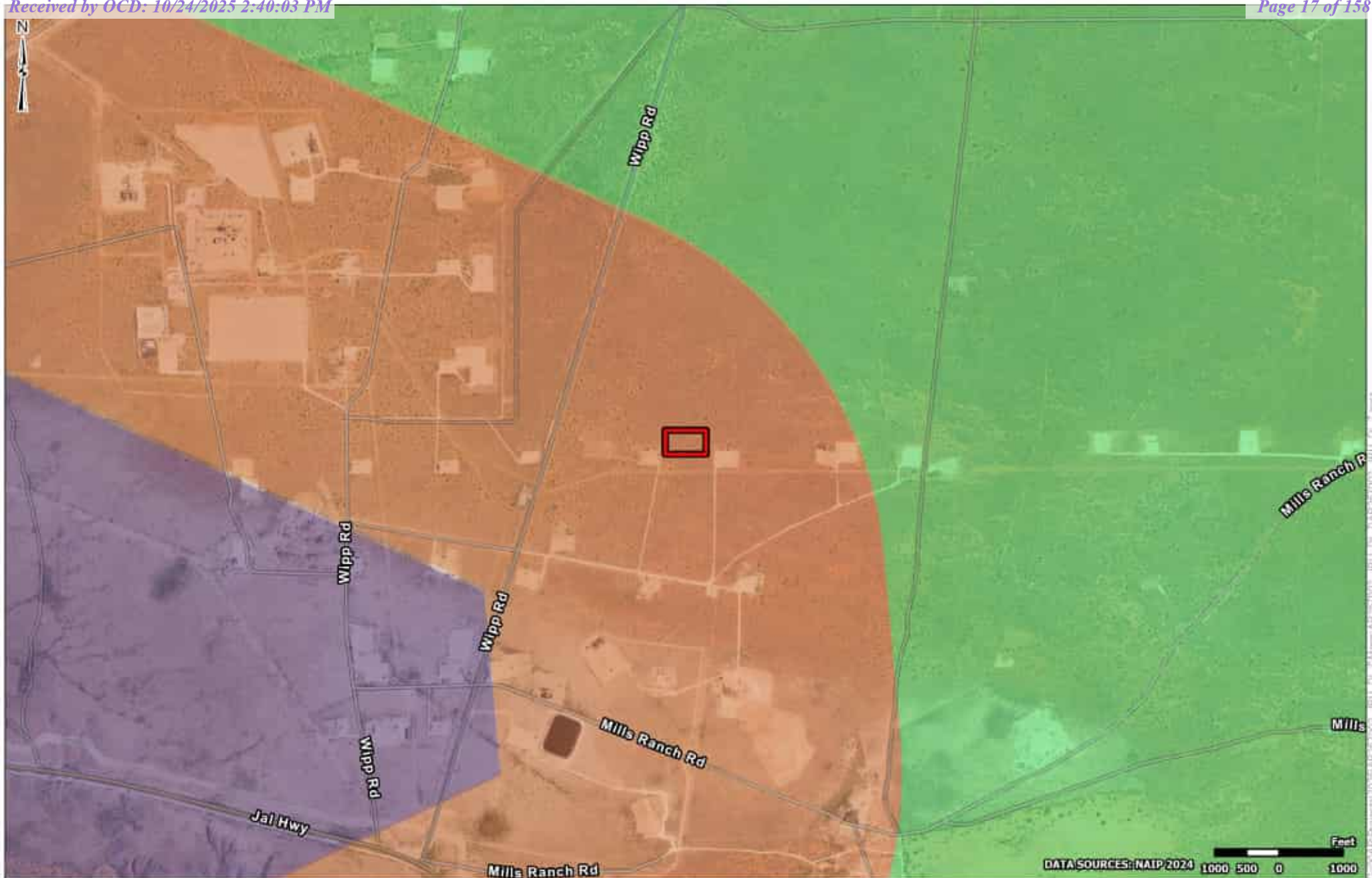
PH. 806-300-0140 terracon.com

Designated Wetland Area Map

JRU DI 7 Sawtooth
32.34021, -103.81755
Carlsbad, Eddy County, New Mexico

Exhibit

5



- Site Boundary**
- Karst Potential**
- Low
 - Medium
 - High

Project No.:
AR257002

Date:
Sep 18 2025

Drawn By:
JWL

Reviewed By:
AHW

Terracon

5847 50th St
Lubbock, TX

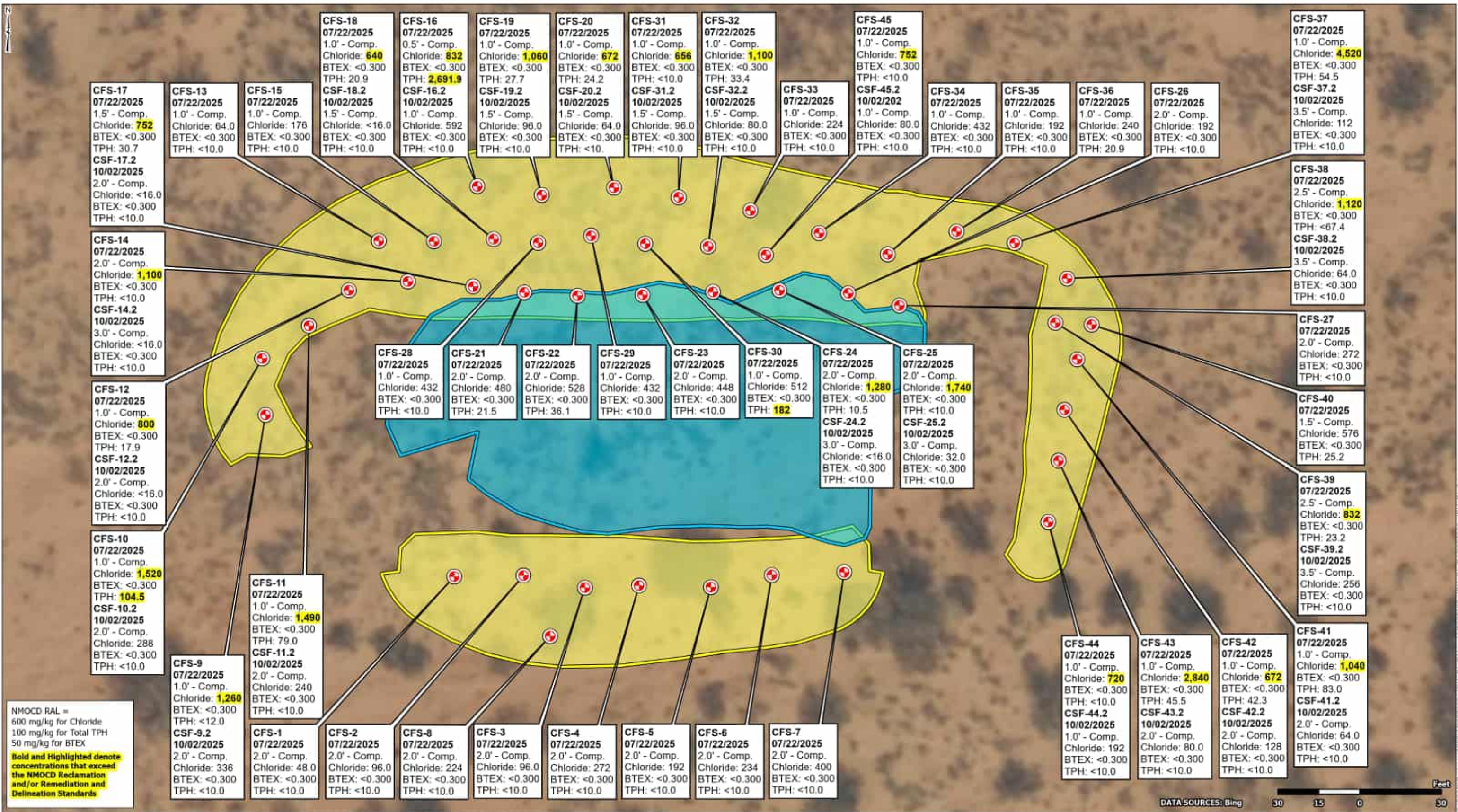
PH. 806-300-0140 terracon.com

Cave Karst Public UCP Map

JRU DI 7 Sawtooth
32.34021, -103.81755
Carlsbad, Eddy County, New Mexico

Exhibit

6

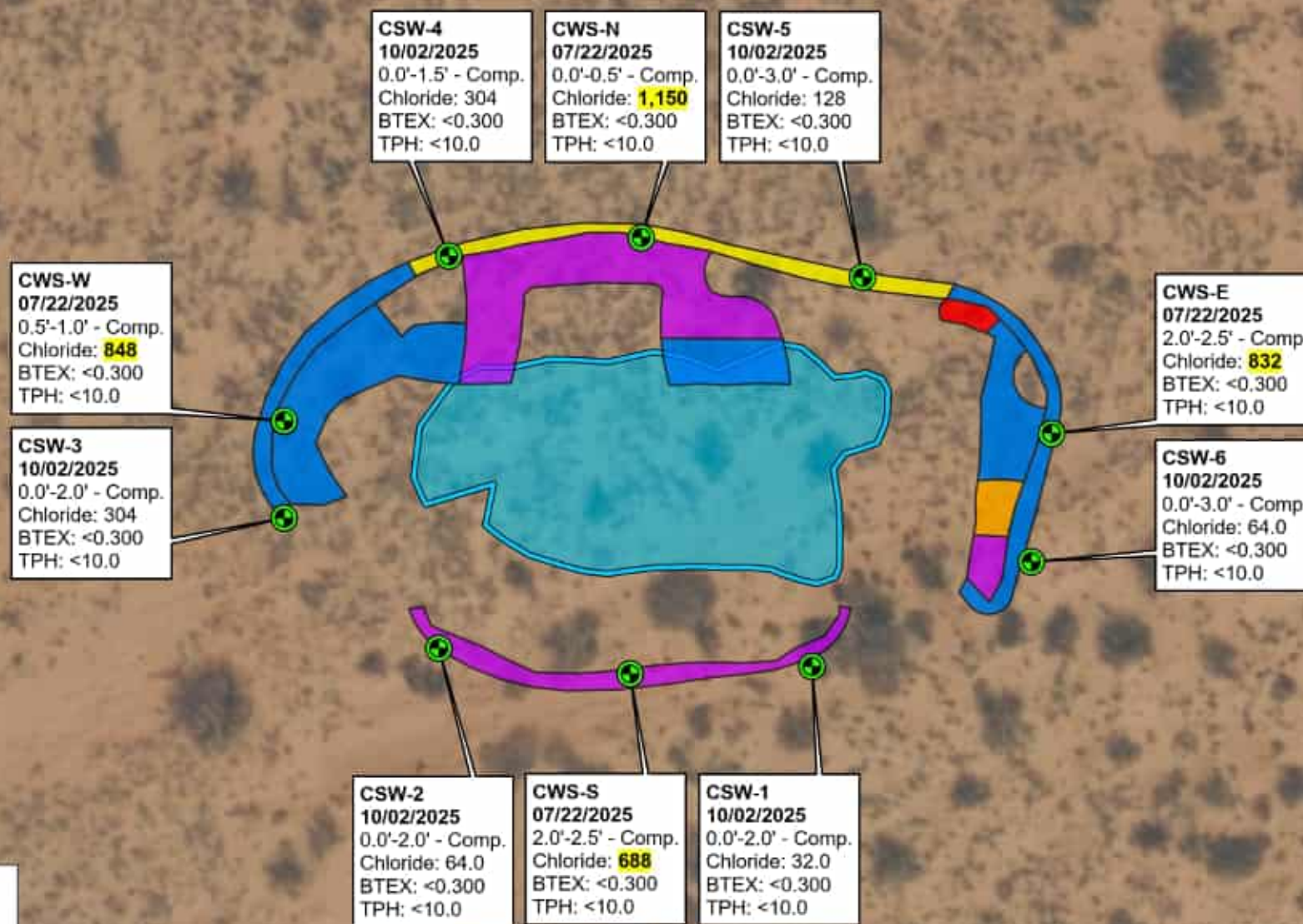


Project No.: AR257002
Date: Oct 24 2025
GIS: JWL
PM: AHW
APR: JCG
OM: ELL

terracon
5847 50th St
Lubbock, TX
PH. 806-300-0140 terracon.com

Confirmation Floor Sample Map
JRU DI 7 Sawtooth
32.34021, -103.81755
Carlsbad, Eddy County, New Mexico

Exhibit
7.1



Feet
25 12.5 0 25

- Confirmation Sample Wall
- Inferred Release (10,300 Sq Ft)
- Cut Plan (Additional Removal Depth)
- 0.5'
- 1.0'
- 1.5'
- 2.0'

Project No.:
AR257002
Date:
Oct 20 2025
Drawn By:
JWL
Reviewed By:
JRG



5847 50th St
Lubbock, TX

PH. 806-300-0140

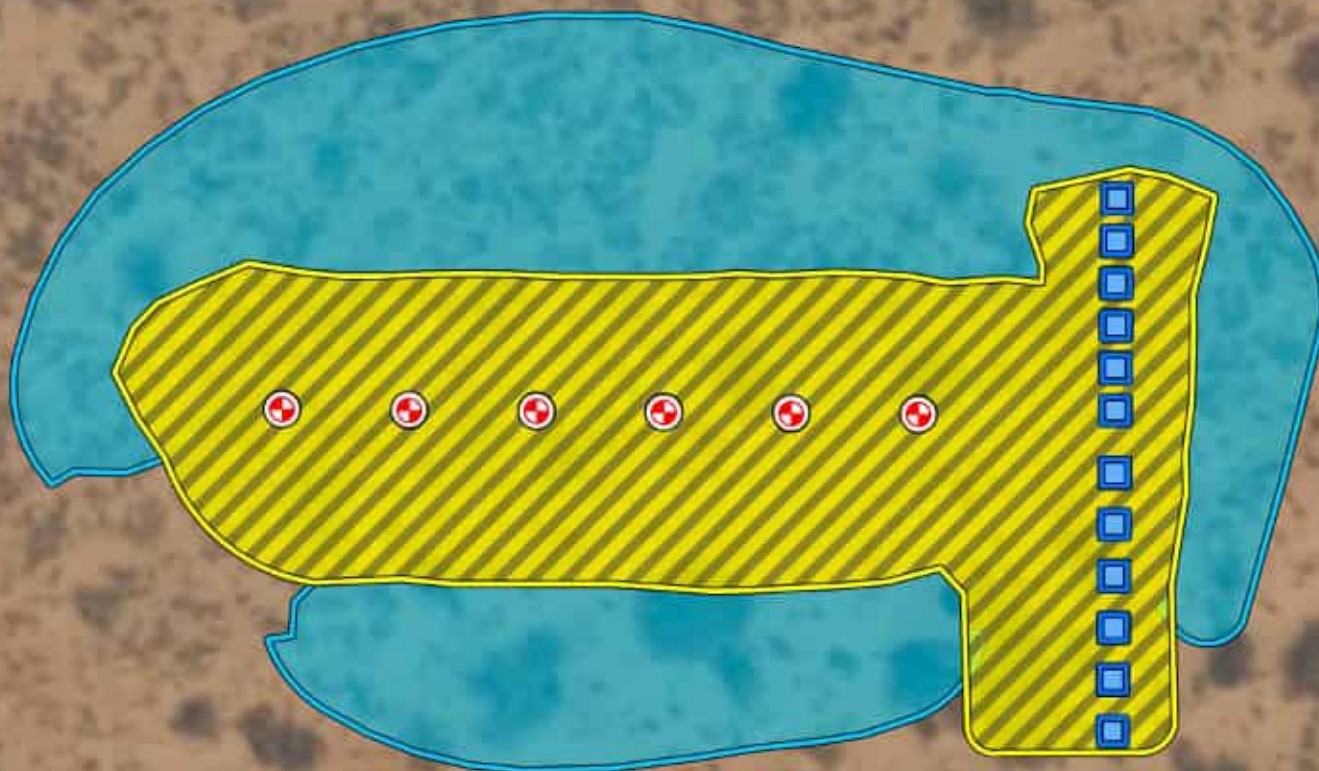
terracon.com

Confirmation Wall Sample Map

JRU DI 7 Sawtooth
32.34021, -103.81755
Carlsbad, Eddy County, New Mexico

Exhibit





7.2



Aerial Imagery not Representative of Current Site
Please Refer to Photo Log

DATA SOURCES: NAIP 2024



-  Well Locations
-  Poly Containers
-  Deferral Area
-  Remediated Area

Project No.:
AR257002
Date:
Oct 24 2025
Drawn By:
JWL
Reviewed By:
AHW



5847 50th St
Lubbock, TX

PH. 806-300-0140

terracon.com

Deferral Request Map

JRU DI 7 Sawtooth
32.34021, -103.81755
Carlsbad, Eddy County, New Mexico

Exhibit**8**



Exhibit 8 - Photo Log – AR257002





Exhibit 8 - Photo Log – AR257002

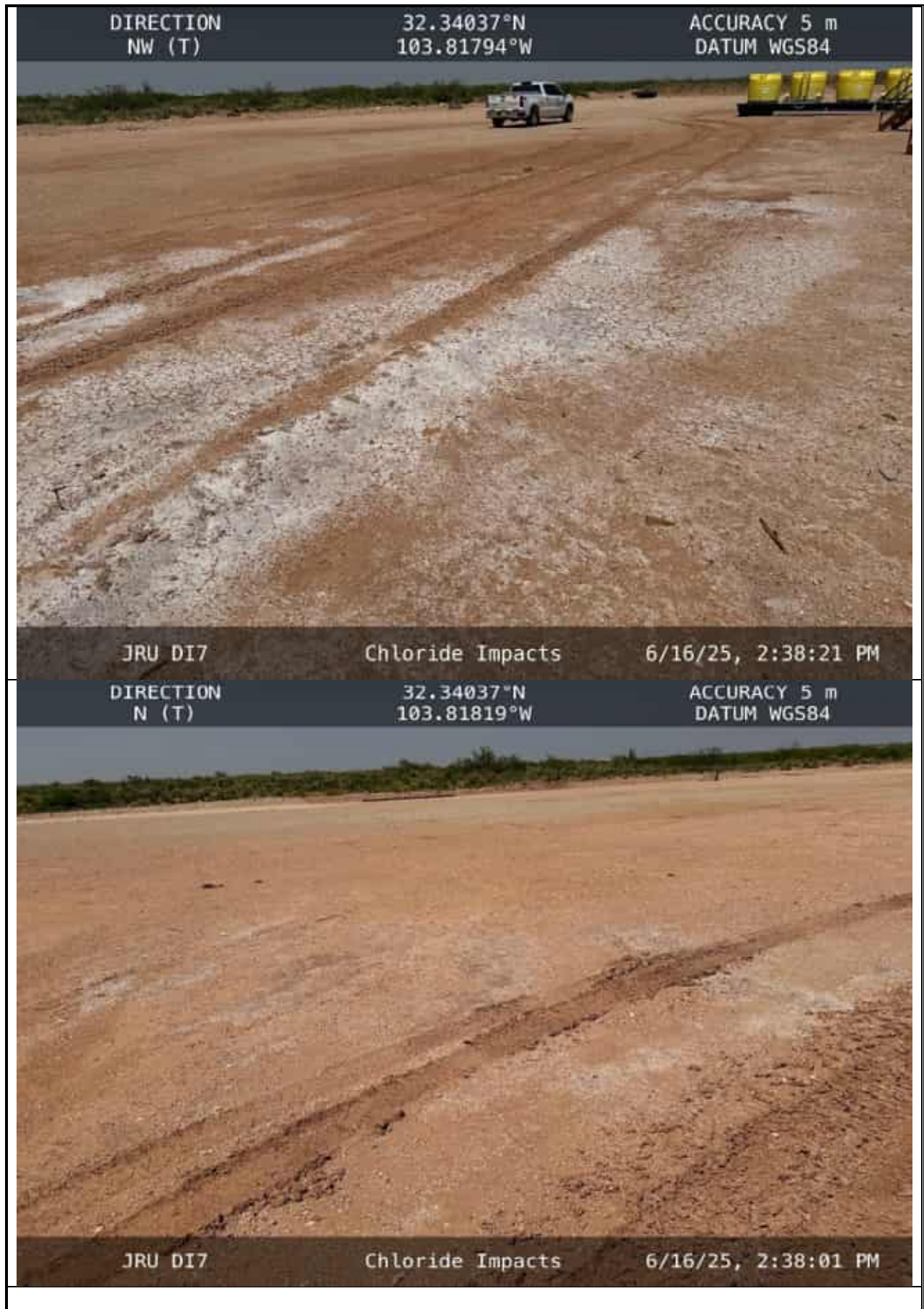




Exhibit 8 - Photo Log – AR257002





Exhibit 8 - Photo Log – AR257002





Exhibit 8 - Photo Log – AR257002





Exhibit 8 - Photo Log – AR257002



**Exhibit 8 - Photo Log – AR257002**



Exhibit 8 - Photo Log – AR257002



APPENDIX A – TERRACON KARST SURVEY

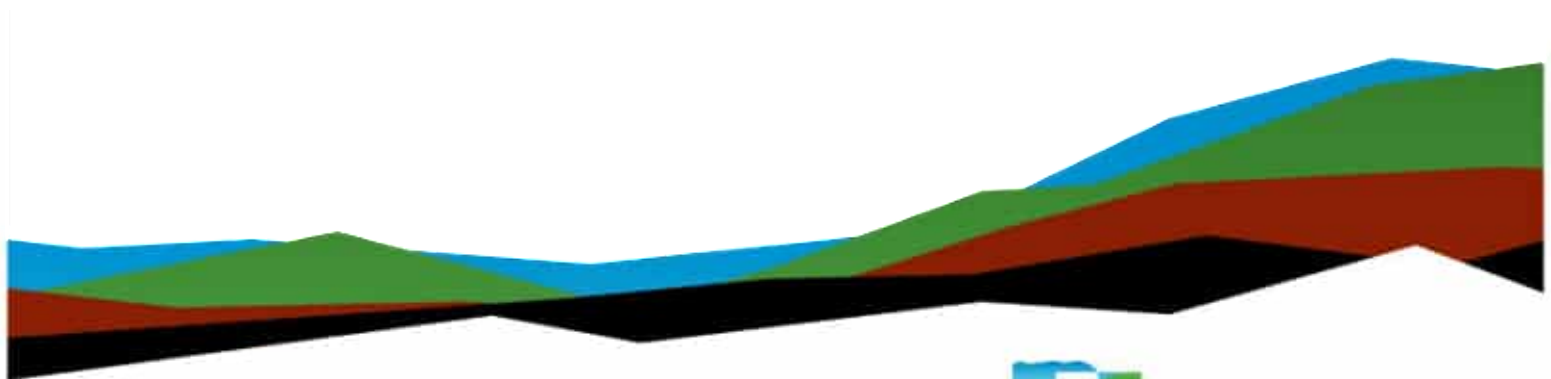
JRU DI 7

Karst Desktop Report

September 22, 2025 | Terracon Project No. AR257002

Prepared for:

XTO Energy Inc
3104 E Greene St
Carlsbad, NM 88220



Nationwide

Terracon.com

- Facilities
- Environmental
- Geotechnical
- Materials



5847 50th Street
Lubbock, Texas 79424
P (806) 300-0140
Terracon.com

September 22, 2025

XTO Energy Inc
3104 E Greene St
Carlsbad, NM 88220

Attn: Colton Brown
P: (575) 988-2390
E: colton.s.brown@exxonmobil.com

Re: Karst Desktop Report
JRU DI 7
Carlsbad, Eddy County, New Mexico
Terracon Project No. AR257002

Dear Mr. Brown:

We have completed the scope of Karst Desktop Report services for the above referenced project in general accordance with Terracon Proposal No. PAR257002. This report presents the findings of the preliminary desktop study at the proposed JRU DI 7 in Carlsbad, Eddy County, New Mexico.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report or if we may be of further service, please contact us.

Sincerely,

Terracon

Joshua D. Valentino, PhD, PG
Project Geologist

Rebecca Smith-Zakowicz, PE, PG
Senior Principal

Karst Desktop Report Report
JRU DI 7 | Carlsbad, Eddy County, New Mexico
September 22, 2025 | Terracon Project No. AR257002



Table of Contents

Introduction..... 1
Geology and Terrain 1
 Physiography 1
 Topography 1
 Geology 2
 Karst Geology 2
Desktop Data Review..... 3
Recommendations 4
General Comments Error! Bookmark not defined.

Figures

- Site Map
- Topography Map

Karst Desktop Report Report

JRU DI 7 | Carlsbad, Eddy County, New Mexico

September 22, 2025 | Terracon Project No. AR257002



Introduction

The proposed JRU DI 7 site located in Carlsbad, Eddy County, New Mexico was assessed for potential karst geohazards underlying the property. The proposed site encompasses approximately 9 acres (Exhibit 1). The objective of the desktop review was to identify suspect karst features which could impact the site. This survey was performed in general compliance with ASTM D8152-23, Standard Practice for Karst Terrain Assessment for Site Development.

Geology and Terrain

Physiography

Based on the USGS Physiography of the United States, the JRU DI7 Sawtooth Site is located in the Pecos Valley Section of the Great Plains Physiographic Province. The Great Plains Province encompasses 450,000 square miles and is the second largest physiographic province of the United States. The vast majority is plateau-like with flat plains and little relief. The Pecos Valley is characterized by thick horizontally-layered Permian-age limestone and evaporite rocks (gypsum, halite) in its western part, Triassic-age redbeds to the east and Cretaceous-age carbonates in the southeast section. It is known for widespread karst development within these units. The modern river valley was formed by glacial meltwaters and subsequent erosion with erosional remnant mesa and a broad alluvium-filled valley.

Topography

Referencing the USGS index of 7.5-minute topographic quadrangles, site is located entirely within the Los Medanos NM Quadrangle (32103-C7). Based on the 10-foot contour interval quadrangle, prior to development the site was nearly level and sparsely vegetated, with an average elevation of EL3317, with a very slight decrease in elevation from the east to west. The entire area was historically referred to as "Los Medanos", which translates to "many dunes". The site has been entirely cleared and graded, with the recent installation of 6 oil wells that are capped.

Karst Desktop Report Report

JRU DI 7 | Carlsbad, Eddy County, New Mexico

September 22, 2025 | Terracon Project No. AR257002



Geology

Based on the USGS geological map of the Nash Draw Quadrangle¹ (Scale=1:62500) the site is mapped as entirely underlain by "Sand" (Qs) windblown sand deposits, dated to the Recent Epoch of the Quaternary Geologic Period. The stratigraphy shown on the geological map suggests the surficial sand deposits are most likely underlain by **Mescalero Caliche (Qc)** which is exposed at the surface across a broad area 2300-feet southwest of the site. The Caliche is limestone and ranges from dense to travertine-like with sand grains and rock fragments and is 2 to 15 feet in thickness. The strata beneath the Caliche are most likely the Quaternary age Gatuna Formation underlain by the Triassic/Permian age Pierce Canyon Redbeds (renamed the Dewey Lake Redbeds) and the Rustler Formation beneath the redbeds. This stratigraphic sequence is based on the upper part of the USGS drill hole core which was drilled as part of the U. S. Atomic Energy Commission "Project Gnome". This bore was drilled just outside of the limits of the Nash Draw area and in an area mapped as windblown sand (Qs) nearly identical in geological setting to the project site.

Karst Geology

Referencing the USGS Karst Map of the United States², the site area is not classified as carbonate, evaporite or piping (pseudokarst) karst terrain. Nevertheless, the Bureau of Land Management, Carlsbad Field Office GIS map of Karst Potential shows the project site as located in an area classified as "medium" potential for karst development. It is of note that the site is located approximately 0.54 miles north of the mapped boundary of the Nash Draw, an extensive internally-drained closed depression formed by the dissolution of evaporite and carbonate rocks of the Salado and Rustler formations of Permian age. Surface karst features (closed depressions, steep-walled sinkholes and caves) are located primarily in the central and southern parts of the Nash Draw, where the Rustler Formation and Mescalero Caliche are exposed at the surface. As mentioned in the geology section, the Mescalero Caliche is exposed at the surface 2300-feet southwest of the site, in an eastward extension of the southern part of the Nash Draw. The windblown sands which are mapped across the Los Medanos area are of unknown thickness, but shallow borings drilled at the project site by Terracon suggest the

¹ Vine, J. D., 1963, Surface Geology of the Nash Draw quadrangle, Eddy County, New Mexico, USGS, Bulletin 1141-B.

² Weary, D.J., and Doctor, D.H., 2014, Karst in the United States: A digital map compilation and database: U.S. Geological Survey Open-File Report 2014-1156, 23 p.

Karst Desktop Report Report

JRU DI 7 | Carlsbad, Eddy County, New Mexico

September 22, 2025 | Terracon Project No. AR257002



windblown sands there are less than 5-feet thick. Caliche was encountered directly beneath the cover sand at nearly every boring location. The Caliche is known to develop karst depressions, sinkholes, and small caves, many of which are well exposed along Livingston Ridge which marks the western parapet of the Nash Draw Karst Depression.

Referencing the 7.5-minute Low Medanos quadrangle, there are no surface depressions marked by hatched closed contours within the site boundaries or less than 1-mile from the site in any direction. However, in order for these features to be shown on the topographic map they must be at least 10-feet in depth relative to the surrounding terrain. The results of the analysis of high-resolution LiDAR and 2-foot contour maps generated from Digital Elevation Models (DEMs) are discussed in the results section of this report.

Desktop Data Review

A review of the LiDAR derived shaded relief map and 2-foot contour layer across the site resulted in the identification of no suspect karst features or closed depressions. Image 1 shows the LiDAR derived Hillshade layer of the project area and the surrounding region and there are no closed depressions or surficial characteristics of karst activities. This is not a surprise since the geology of the region is not conducive to significant karst development and the site is overlain by wind-blown sediments.

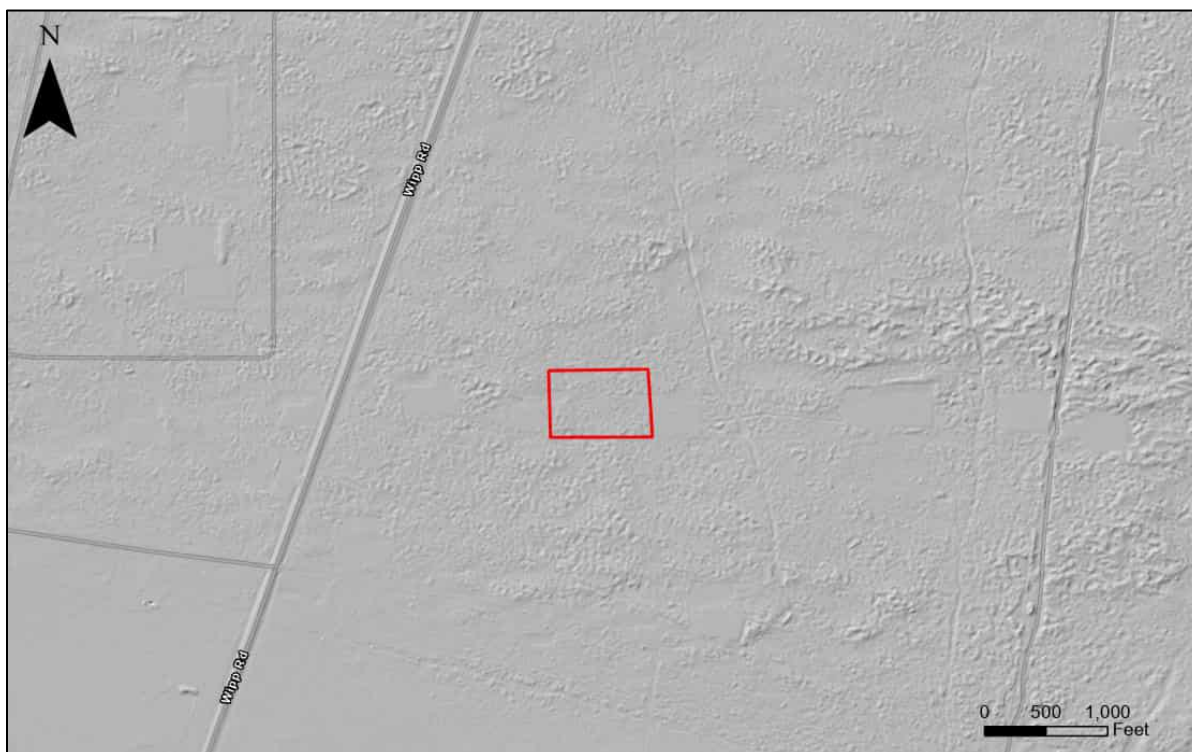


Image 1. Both the LiDAR derived Hillshade and the 2-foot contour layers were utilized to scan for suspect karst features. As shown in this image, no features were flagged.

Karst Desktop Report Report

JRU DI 7 | Carlsbad, Eddy County, New Mexico

September 22, 2025 | Terracon Project No. AR257002



There are some large, closed depressions located both to the south and west of the site that are likely related to the caliche stratum being exposed at the surface within the Nash Draw area (shown in Image 2).

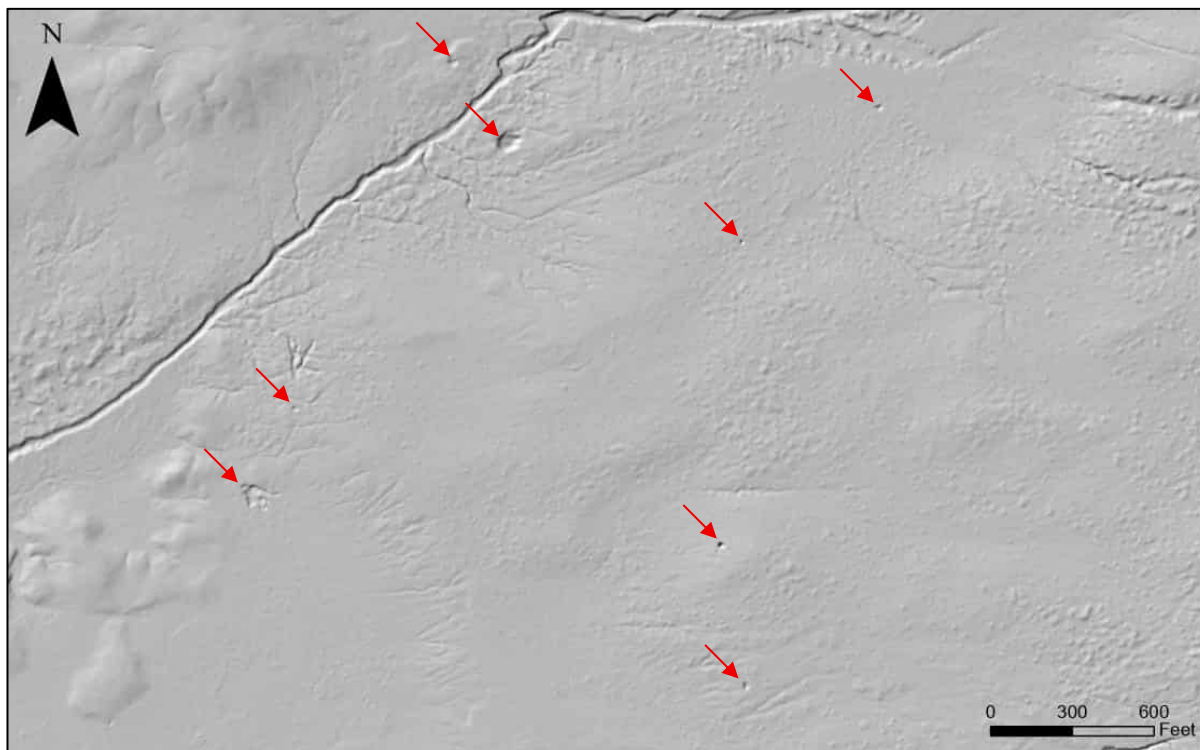


Image 2. A concentration "suspect" karst features (shown by red arrows) forming in the Nash Draw.

Recommendations

The results of the karst desktop data review serve as a surficial indication for suspect karst feature locations and karst potential concentrations. The absence of suspect karst features within and surrounding the area of interest, combined with the fact that the local geology is not classified as a major karst formation, indicates that the onsite karst risk is relatively low. Although closed depressions located to the south and west of the site suggest a regional karst potential, these features appear to be localized within the Nash Draw area.

This report outlines the findings and opinions of our initial step in the mine and karst desktop survey. Information presented herein is based on the review of publicly available information. No site or project-specific information has been reviewed for the preparation of this report. Field reconnaissance may be required as the next step to locate and characterize suspect karst features from our desktop review as well as identify other features at the site in the field based on observations from the ground surface. This report is representative only of surficial indications from remote sensing

Karst Desktop Report Report

JRU DI 7 | Carlsbad, Eddy County, New Mexico

September 22, 2025 | Terracon Project No. AR257002



data observable at the time the data was collected. It should be noted that karst is a dynamic landform and significant changes can occur over time. Absence of a mapped resource does not mean that it is not present.

General Comments

Our services and any correspondence or collaboration are intended for the sole benefit and exclusive use of our client for specific application to the project discussed and are accomplished in accordance with generally accepted geotechnical and geological engineering practices with no third-party beneficiaries intended. Any third-party access to services or correspondence is solely for information purposes to support the services provided by Terracon to our client. Reliance upon the services and any work product is limited to our client and is not intended for third parties. Any use or reliance of the provided information by third parties is done solely at their own risk. No warranties, either express or implied, are intended or made.

All parties are advised that any decisions or actions taken by any party based on the information contained herein, including decisions with financial implications are done solely at the risk of that party. By providing this information in this preliminary form, Terracon expressly disclaims any duties or obligations associated with the usage of this information for decision-making or design purposes.

In the event that changes to the nature, design, or location of the project, as outlined in this report, are planned, the preliminary conclusions and recommendations contained in this report shall not be used unless Terracon reviews the changes and either verifies or modifies the conclusions of this report in writing. As the project moves into the design phase, Terracon should be retained to develop and complete a scope of work that includes site-specific explorations.

Karst Desktop Report Report

JRU DI 7 | Carlsbad, Eddy County, New Mexico

September 22, 2025 | Terracon Project No. AR257002



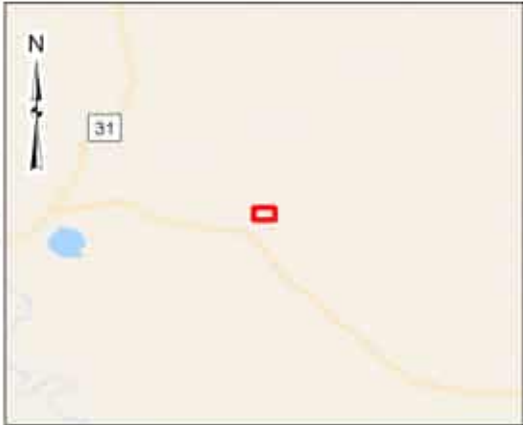
Figures

Contents:

Exhibit 1 – Site Map

Exhibit 2 – Topography Map

Note: All attachments are one page unless noted above.



Legend
Project Boundary

DATA SOURCES:
ESRI - Basemaps



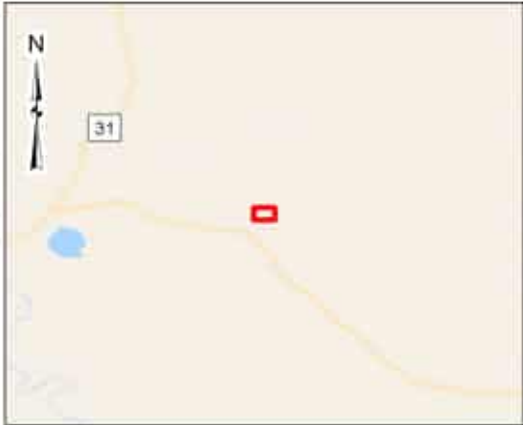
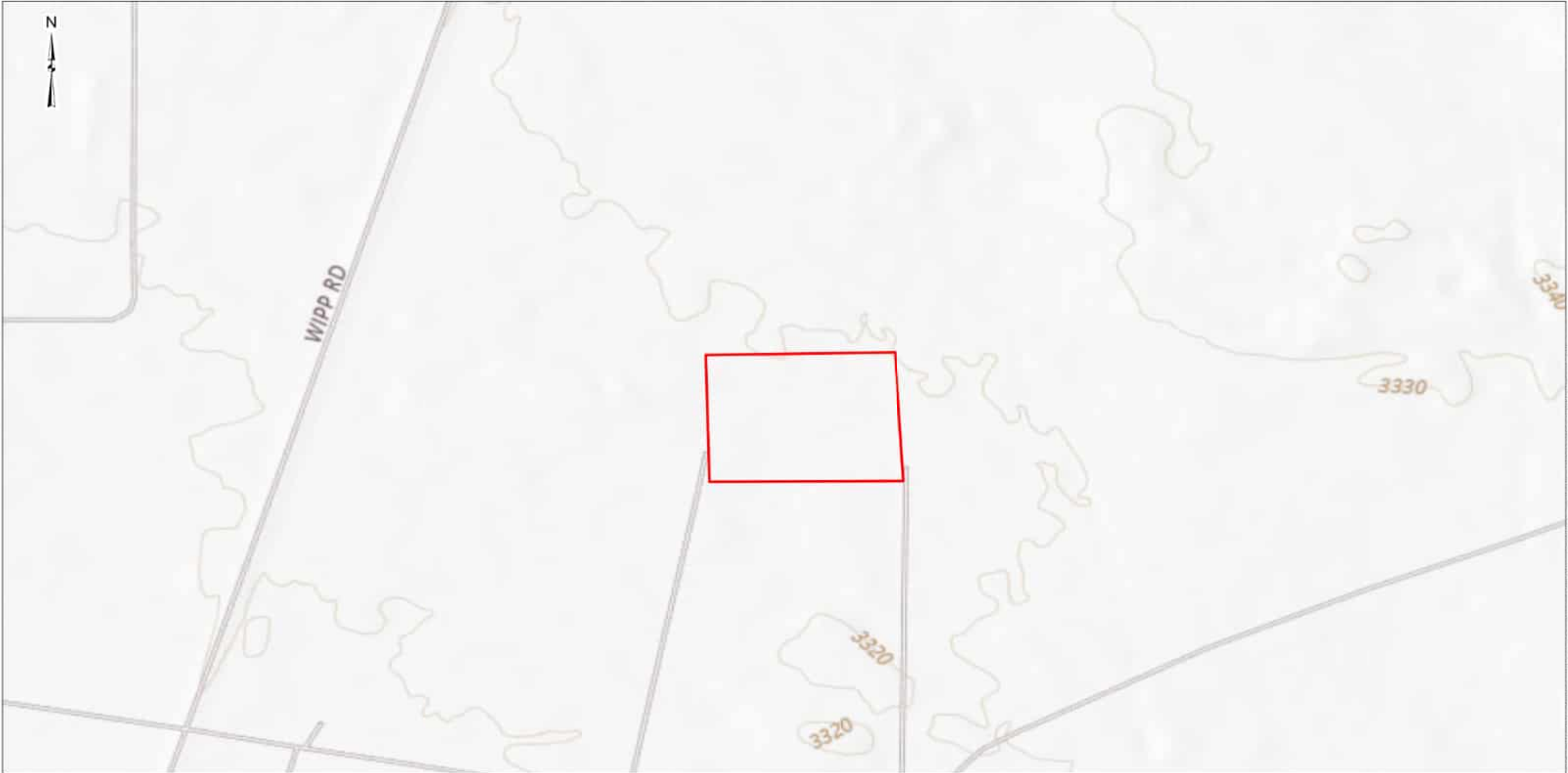
Project No.:
AR257002
Date:
Sep 2025
Drawn By:
INE
Reviewed By:
JDV



5847 50th St
Lubbock, TX
PH. 806-300-0140 terracon.com

Site Map
JRU DI 7 Eddy County, New Mexico XTO Energy Inc

Exhibit
1



Legend
[Red Box] Project Boundary

DATA SOURCES:
ESRI - Basemaps



Project No.:
AR257002
Date:
Sep 2025
Drawn By:
INE
Reviewed By:
JDV



5847 50th St
Lubbock, TX

PH. 806-300-0140 terracon.com

Topography Map
JRU DI 7 Eddy County, New Mexico XTO Energy Inc

Exhibit
2

APPENDIX B – LABORATORY DATA PACKAGES



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

June 20, 2025

AUSTIN WORLEY

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: JRU D17 SAWTOOTH

Enclosed are the results of analyses for samples received by the laboratory on 06/16/25 16:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 06/16/2025
 Reported: 06/20/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 06/16/2025
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: VDS - 1 (0.5') (H253576-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2025	ND	2.24	112	2.00	12.7	
Toluene*	<0.050	0.050	06/18/2025	ND	2.02	101	2.00	8.69	
Ethylbenzene*	<0.050	0.050	06/18/2025	ND	2.06	103	2.00	8.14	
Total Xylenes*	<0.150	0.150	06/18/2025	ND	6.46	108	6.00	7.89	
Total BTEX	<0.300	0.300	06/18/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	06/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2025	ND	203	101	200	3.79	
DRO >C10-C28*	<10.0	10.0	06/17/2025	ND	196	98.0	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	06/17/2025	ND					

Surrogate: 1-Chlorooctane 70.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 68.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 06/16/2025
 Reported: 06/20/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 06/16/2025
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: VDS - 1 (1') (H253576-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/18/2025	ND	2.24	112	2.00	12.7		
Toluene*	<0.050	0.050	06/18/2025	ND	2.02	101	2.00	8.69		
Ethylbenzene*	<0.050	0.050	06/18/2025	ND	2.06	103	2.00	8.14		
Total Xylenes*	<0.150	0.150	06/18/2025	ND	6.46	108	6.00	7.89		
Total BTEX	<0.300	0.300	06/18/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	06/17/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2025	ND	203	101	200	3.79	
DRO >C10-C28*	<10.0	10.0	06/17/2025	ND	196	98.0	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	06/17/2025	ND					

Surrogate: 1-Chlorooctane 71.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.1 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 06/16/2025
 Reported: 06/20/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 06/16/2025
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: VDS - 2 (0.5') (H253576-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2025	ND	2.24	112	2.00	12.7	
Toluene*	<0.050	0.050	06/18/2025	ND	2.02	101	2.00	8.69	
Ethylbenzene*	<0.050	0.050	06/18/2025	ND	2.06	103	2.00	8.14	
Total Xylenes*	<0.150	0.150	06/18/2025	ND	6.46	108	6.00	7.89	
Total BTX	<0.300	0.300	06/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11700	16.0	06/17/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2025	ND	203	101	200	3.79	
DRO >C10-C28*	1380	10.0	06/17/2025	ND	196	98.0	200	2.29	
EXT DRO >C28-C36	34.7	10.0	06/17/2025	ND					

Surrogate: 1-Chlorooctane 74.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 113 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 06/16/2025
 Reported: 06/20/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 06/16/2025
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: VDS - 2 (1') (H253576-04)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2025	ND	2.24	112	2.00	12.7	
Toluene*	<0.050	0.050	06/18/2025	ND	2.02	101	2.00	8.69	
Ethylbenzene*	<0.050	0.050	06/18/2025	ND	2.06	103	2.00	8.14	
Total Xylenes*	<0.150	0.150	06/18/2025	ND	6.46	108	6.00	7.89	
Total BTX	<0.300	0.300	06/18/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8800	16.0	06/17/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2025	ND	189	94.5	200	3.67	
DRO >C10-C28*	219	10.0	06/17/2025	ND	176	88.2	200	0.477	
EXT DRO >C28-C36	<10.0	10.0	06/17/2025	ND					

Surrogate: 1-Chlorooctane 79.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.4 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 06/16/2025
 Reported: 06/20/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 06/16/2025
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: VDS - 3 (0.5') (H253576-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2025	ND	2.24	112	2.00	12.7	
Toluene*	<0.050	0.050	06/18/2025	ND	2.02	101	2.00	8.69	
Ethylbenzene*	<0.050	0.050	06/18/2025	ND	2.06	103	2.00	8.14	
Total Xylenes*	<0.150	0.150	06/18/2025	ND	6.46	108	6.00	7.89	
Total BTEX	<0.300	0.300	06/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20400	16.0	06/17/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2025	ND	189	94.5	200	3.67	
DRO >C10-C28*	40.4	10.0	06/17/2025	ND	176	88.2	200	0.477	
EXT DRO >C28-C36	<10.0	10.0	06/17/2025	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.5 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 06/16/2025
 Reported: 06/20/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 06/16/2025
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: VDS - 3 (1') (H253576-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/18/2025	ND	2.00	99.8	2.00	8.31		
Toluene*	<0.050	0.050	06/18/2025	ND	1.98	98.8	2.00	4.19		
Ethylbenzene*	<0.050	0.050	06/18/2025	ND	1.99	99.3	2.00	2.75		
Total Xylenes*	<0.150	0.150	06/18/2025	ND	5.83	97.2	6.00	2.08		
Total BTEX	<0.300	0.300	06/18/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14000	16.0	06/17/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2025	ND	189	94.5	200	3.67	
DRO >C10-C28*	<10.0	10.0	06/17/2025	ND	176	88.2	200	0.477	
EXT DRO >C28-C36	<10.0	10.0	06/17/2025	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.7 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 06/16/2025
 Reported: 06/20/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 06/16/2025
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: HDS - 1 (0.5') (H253576-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/18/2025	ND	2.00	99.8	2.00	8.31		
Toluene*	<0.050	0.050	06/18/2025	ND	1.98	98.8	2.00	4.19		
Ethylbenzene*	<0.050	0.050	06/18/2025	ND	1.99	99.3	2.00	2.75		
Total Xylenes*	<0.150	0.150	06/18/2025	ND	5.83	97.2	6.00	2.08		
Total BTX	<0.300	0.300	06/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	06/17/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2025	ND	189	94.5	200	3.67	
DRO >C10-C28*	<10.0	10.0	06/17/2025	ND	176	88.2	200	0.477	
EXT DRO >C28-C36	<10.0	10.0	06/17/2025	ND					

Surrogate: 1-Chlorooctane 89.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.5 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 06/16/2025
 Reported: 06/20/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 06/16/2025
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: HDS - 2 (0.5') (H253576-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/18/2025	ND	2.00	99.8	2.00	8.31		
Toluene*	<0.050	0.050	06/18/2025	ND	1.98	98.8	2.00	4.19		
Ethylbenzene*	<0.050	0.050	06/18/2025	ND	1.99	99.3	2.00	2.75		
Total Xylenes*	<0.150	0.150	06/18/2025	ND	5.83	97.2	6.00	2.08		
Total BTEX	<0.300	0.300	06/18/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	06/17/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2025	ND	189	94.5	200	3.67	
DRO >C10-C28*	<10.0	10.0	06/17/2025	ND	176	88.2	200	0.477	
EXT DRO >C28-C36	<10.0	10.0	06/17/2025	ND					

Surrogate: 1-Chlorooctane 90.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.1 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
AUSTIN WORLEY
5827 50TH ST. SUITE 1
LUBBOCK TX, 79424
Fax To:

Received: 06/16/2025
Reported: 06/20/2025
Project Name: JRU D17 SAWTOOTH
Project Number: AR257002
Project Location: XTO

Sampling Date: 06/16/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: HDS - 3 (0.5') (H253576-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/18/2025	ND	2.00	99.8	2.00	8.31		
Toluene*	<0.050	0.050	06/18/2025	ND	1.98	98.8	2.00	4.19		
Ethylbenzene*	<0.050	0.050	06/18/2025	ND	1.99	99.3	2.00	2.75		
Total Xylenes*	<0.150	0.150	06/18/2025	ND	5.83	97.2	6.00	2.08		
Total BTEX	<0.300	0.300	06/18/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1410	16.0	06/17/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2025	ND	189	94.5	200	3.67	
DRO >C10-C28*	<10.0	10.0	06/17/2025	ND	176	88.2	200	0.477	
EXT DRO >C28-C36	<10.0	10.0	06/17/2025	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.0 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
AUSTIN WORLEY
5827 50TH ST. SUITE 1
LUBBOCK TX, 79424
Fax To:

Received: 06/16/2025
Reported: 06/20/2025
Project Name: JRU D17 SAWTOOTH
Project Number: AR257002
Project Location: XTO

Sampling Date: 06/16/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: HDS - 4 (0.5') (H253576-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/18/2025	ND	2.00	99.8	2.00	8.31		
Toluene*	<0.050	0.050	06/18/2025	ND	1.98	98.8	2.00	4.19		
Ethylbenzene*	<0.050	0.050	06/18/2025	ND	1.99	99.3	2.00	2.75		
Total Xylenes*	<0.150	0.150	06/18/2025	ND	5.83	97.2	6.00	2.08		
Total BTEX	<0.300	0.300	06/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2025	ND	189	94.5	200	3.67	
DRO >C10-C28*	<10.0	10.0	06/17/2025	ND	176	88.2	200	0.477	
EXT DRO >C28-C36	<10.0	10.0	06/17/2025	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.1 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

CHAIN OF CUSTODY RECORD



Office Location: Lubbock

Project Manager: Austin Worley

Sampler's Name: Austin Worley

Laboratory: Cardinal Lab

Address: 2001 Hobbs, NM

Phone: _____

Contact: _____

Sampler's Signature: Austin Worley

ANALYSIS REQUESTED

BTEX	TPH	Chloride							
X	X	X							
X	X	X							
X	X	X							
X	X	X							
X	X	X							
X	X	X							
X	X	X							
X	X	X							
X	X	X							

Project Number: AR257002 Project Name: JRU D17 Sawtooth

Temp of Cooler When Received (°C): 24.3

Page 1 of 1

Lab Sample ID: +P53576

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth (FT)	End Depth (FT)	No. Type of Containers	BTEX	TPH	Chloride
S	6-16-25	12:16		X	VDS-1 (0.5')	-	0.5	1	X	X	X
S		12:25		X	VDS-1 (1')	-	1	1	X	X	X
S		12:34		X	VDS-2 (0.5')	-	0.5	1	X	X	X
S		12:48		X	VDS-2 (1')	-	1	1	X	X	X
S		12:55		X	VDS-3 (0.5')	-	0.5	1	X	X	X
S		13:03		X	VDS-3 (1')	-	1	1	X	X	X
S		13:13		X	HDS-1 (0.5')	-	0.5	1	X	X	X
S		13:23		X	HDS-2 (0.5')	-	0.5	1	X	X	X
S		13:30		X	HDS-3 (0.5')	-	0.5	1	X	X	X
S		13:38		X	HDS-4 (0.5')	-	0.5	1	X	X	X

TURNAROUND TIME: ☒ Normal ☐ 48-Hour Rush ☐ 24-Hour Rush

TRRP Laboratory Review Checklist: ☐ Yes ☐ No

Requested by (Signature): <u>Austin Worley</u>	Date: <u>6-16-25</u>	Time: <u>16:05</u>	Requested by (Signature): <u>Shadrighely</u>	Date: <u>6-16-25</u>	Time: <u>16:09</u>
Requested by (Signature):	Date:	Time:	Requested by (Signature):	Date:	Time:
Requested by (Signature):	Date:	Time:	Requested by (Signature):	Date:	Time:
Requested by (Signature):	Date:	Time:	Requested by (Signature):	Date:	Time:

Bill To: XTO Energy

2240971001 Cotton Brown

e-mail results to:

austin.worley@terracon.com

joseph.guesniere@terracon.com

Lubbock Office ■ 5347 50th Street ■ Lubbock, Texas 79424 ■ 806-300-0140

Responsive ■ Resourceful ■ Reliable



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

July 29, 2025

AUSTIN WORLEY

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: JRU D17 SAWTOOTH

Enclosed are the results of analyses for samples received by the laboratory on 07/23/25 14:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DVS - 4 (5') (H254451-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.82	91.2	2.00	4.44	
Toluene*	<0.050	0.050	07/25/2025	ND	1.82	90.8	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.85	92.4	2.00	6.31	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.62	93.7	6.00	5.58	
Total BTX	<0.300	0.300	07/25/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/24/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	200	99.8	200	0.792	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	185	92.3	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 86.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.1 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
AUSTIN WORLEY
5827 50TH ST. SUITE 1
LUBBOCK TX, 79424
Fax To:

Received: 07/23/2025
Reported: 07/29/2025
Project Name: JRU D17 SAWTOOTH
Project Number: AR257002
Project Location: NOT GIVEN

Sampling Date: 07/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: DVS - 5 (5') (H254451-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.82	91.2	2.00	4.44	
Toluene*	<0.050	0.050	07/25/2025	ND	1.82	90.8	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.85	92.4	2.00	6.31	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.62	93.7	6.00	5.58	
Total BTX	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/24/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	200	99.8	200	0.792	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	185	92.3	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 12/22/2025 9:11:10 AM



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July 29, 2025

AUSTIN WORLEY

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: JRU D17 SAWTOOTH

Enclosed are the results of analyses for samples received by the laboratory on 07/23/25 14:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
AUSTIN WORLEY
5827 50TH ST. SUITE 1
LUBBOCK TX, 79424
Fax To:

Received: 07/23/2025
Reported: 07/29/2025
Project Name: JRU D17 SAWTOOTH
Project Number: AR257002
Project Location: NOT GIVEN

Sampling Date: 07/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CWS - N 0.5' (H254453-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.82	91.2	2.00	4.44	
Toluene*	<0.050	0.050	07/25/2025	ND	1.82	90.8	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.85	92.4	2.00	6.31	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.62	93.7	6.00	5.58	
Total BTX	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	07/24/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	186	92.9	200	0.380	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.892	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 85.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CWS - E 2.5' (H254453-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.82	91.2	2.00	4.44		
Toluene*	<0.050	0.050	07/25/2025	ND	1.82	90.8	2.00	6.36		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.85	92.4	2.00	6.31		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.62	93.7	6.00	5.58		
Total BTEx	<0.300	0.300	07/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	07/24/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	186	92.9	200	0.380	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.892	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 85.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.8 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CWS - S 2.5' (H254453-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.82	91.2	2.00	4.44		
Toluene*	<0.050	0.050	07/25/2025	ND	1.82	90.8	2.00	6.36		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.85	92.4	2.00	6.31		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.62	93.7	6.00	5.58		
Total BTX	<0.300	0.300	07/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	07/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	186	92.9	200	0.380	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.892	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 81.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CWS - W 1.0' (H254453-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.82	91.2	2.00	4.44		
Toluene*	<0.050	0.050	07/25/2025	ND	1.82	90.8	2.00	6.36		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.85	92.4	2.00	6.31		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.62	93.7	6.00	5.58		
Total BTX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	07/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	186	92.9	200	0.380	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.892	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 76.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

CHAIN OF CUSTODY RECORD

						Laboratory: Cardinal Laboratories Address: _____ Phone: _____ Contact: _____				ANALYSIS REQUESTED				LAB USE ONLY GIVE DATE: _____	
										TEMP OF COOLER WHEN RECEIVED (°C) 08690-3-1112/460		Page <u>1</u> of <u>1</u>			
Office Location: Lubbock, Texas Project Manager: Austin Worley Sampler's Name: Daniel Pavelka										Sampler's Signature:					
Project Number: AR257002				Project Name: JRU D17 Sawtooth				No. Type of Containers				11054453 Lab Sample ID			
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth (FT)	End Depth (FT)	4 oz Glass	BTEX	TPH	Chloride				
S	7/22/2025	14:40	X		CWS-N	0.0	0.5	1	X	X	X	1			
S	7/22/2025	14:45	X		CWS-E	0.0	2.5	1	X	X	X	2			
S	7/22/2025	14:50	X		CWS-S	0.0	2.5	1	X	X	X	3			
S	7/22/2025	14:55	X		CWS-W	0.0	1.0	1	X	X	X	4			
TURNAROUND TIME: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 48-Hour Rush <input type="checkbox"/> 24-Hour Rush															
Submitted by (Signature):				Date: 7/23/25		Time: 1451		Received by (Signature):		Date: 7-23-25		Time: 1451			
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: _____			
e-mail results to: austin.worley@terracon.com joseph.guesner@terracon.com daniel.pavelka@terracon.com															
Lubbock Office ■ 5847 50th Street ■ Lubbock, Texas 79424 ■ 806-300-0140 Responsive ■ Resourceful ■ Reliable															



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July 29, 2025

AUSTIN WORLEY

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: JRU D17 SAWTOOTH

Enclosed are the results of analyses for samples received by the laboratory on 07/23/25 14:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 1 2.0 (H254454-01)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.82	91.2	2.00	4.44	
Toluene*	<0.050	0.050	07/25/2025	ND	1.82	90.8	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.85	92.4	2.00	6.31	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.62	93.7	6.00	5.58	
Total BTX	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: KH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/24/2025	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	186	92.9	200	0.380	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.892	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 68.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 61.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 2 2.0 (H254454-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.82	91.2	2.00	4.44	
Toluene*	<0.050	0.050	07/25/2025	ND	1.82	90.8	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.85	92.4	2.00	6.31	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.62	93.7	6.00	5.58	
Total BTEX	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	186	92.9	200	0.380	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.892	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 79.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 3 2.0 (H254454-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.82	91.2	2.00	4.44		
Toluene*	<0.050	0.050	07/25/2025	ND	1.82	90.8	2.00	6.36		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.85	92.4	2.00	6.31		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.62	93.7	6.00	5.58		
Total BTX	<0.300	0.300	07/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	186	92.9	200	0.380	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.892	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 85.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 4 2.0 (H254454-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.82	91.2	2.00	4.44		
Toluene*	<0.050	0.050	07/25/2025	ND	1.82	90.8	2.00	6.36		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.85	92.4	2.00	6.31		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.62	93.7	6.00	5.58		
Total BTEX	<0.300	0.300	07/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	07/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	186	92.9	200	0.380	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.892	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 5 2.0 (H254454-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.82	91.2	2.00	4.44		
Toluene*	<0.050	0.050	07/25/2025	ND	1.82	90.8	2.00	6.36		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.85	92.4	2.00	6.31		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.62	93.7	6.00	5.58		
Total BTX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	07/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	186	92.9	200	0.380	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.892	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 79.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 6 2.0 (H254454-06)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.82	91.2	2.00	4.44	
Toluene*	<0.050	0.050	07/25/2025	ND	1.82	90.8	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.85	92.4	2.00	6.31	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.62	93.7	6.00	5.58	
Total BTX	<0.300	0.300	07/25/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/24/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	186	92.9	200	0.380	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.892	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 83.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 7 2.0 (H254454-07)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.82	91.2	2.00	4.44	
Toluene*	<0.050	0.050	07/25/2025	ND	1.82	90.8	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.85	92.4	2.00	6.31	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.62	93.7	6.00	5.58	
Total BTX	<0.300	0.300	07/25/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/24/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	186	92.9	200	0.380	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.892	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 84.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.7 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 8 2.0 (H254454-08)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.82	91.2	2.00	4.44	
Toluene*	<0.050	0.050	07/25/2025	ND	1.82	90.8	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.85	92.4	2.00	6.31	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.62	93.7	6.00	5.58	
Total BTX	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/24/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	186	92.9	200	0.380	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.892	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.9 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 9 1.0 (H254454-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800		
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40		
Total BTEx	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	07/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	186	92.9	200	0.380	
DRO >C10-C28*	12.0	10.0	07/25/2025	ND	198	99.2	200	0.892	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.1 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 10 1.0 (H254454-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800		
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40		
Total BTEx	<0.300	0.300	07/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	07/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	186	92.9	200	0.380	
DRO >C10-C28*	90.3	10.0	07/25/2025	ND	198	99.2	200	0.892	
EXT DRO >C28-C36	14.2	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 82.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.8 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 11 1.0 (H254454-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800		
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40		
Total BTEx	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	07/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	186	92.9	200	0.380	
DRO >C10-C28*	79.0	10.0	07/25/2025	ND	198	99.2	200	0.892	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 81.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.8 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 12 1.0 (H254454-12)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800	
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40	
Total BTX	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	07/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	200	99.8	200	0.792	
DRO >C10-C28*	17.9	10.0	07/25/2025	ND	185	92.3	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.9 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 13 1.0 (H254454-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800		
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40		
Total BTEx	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	200	99.8	200	0.792	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	185	92.3	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.6 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
AUSTIN WORLEY
5827 50TH ST. SUITE 1
LUBBOCK TX, 79424
Fax To:

Received: 07/23/2025
Reported: 07/29/2025
Project Name: JRU D17 SAWTOOTH
Project Number: AR257002
Project Location: NOT GIVEN

Sampling Date: 07/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CFS - 14 2.0 (H254454-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800		
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40		
Total BTEx	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	07/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 68.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 67.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 15 1.0 (H254454-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800		
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40		
Total BTEx	<0.300	0.300	07/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	07/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 80.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.5 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
AUSTIN WORLEY
5827 50TH ST. SUITE 1
LUBBOCK TX, 79424
Fax To:

Received: 07/23/2025
Reported: 07/29/2025
Project Name: JRU D17 SAWTOOTH
Project Number: AR257002
Project Location: NOT GIVEN

Sampling Date: 07/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CFS - 16 0.5 (H254454-16)

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800	
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40	
Total BTX	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 71.5-134

Chloride, SM4500CI-B		mg/kg	Analyzed By: KH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	07/24/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.9	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	2680	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 90.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 160 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 17 1.5 (H254454-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800		
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40		
Total BTEx	<0.300	0.300	07/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	07/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	30.7	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 68.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.9 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 18 1.0 (H254454-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800		
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40		
Total BTEx	<0.300	0.300	07/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	07/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	20.9	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.1 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 19 1.0 (H254454-19)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800		
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40		
Total BTX	<0.300	0.300	07/25/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	07/24/2025	ND	416	104	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	27.7	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.3 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 20 1.0 (H254454-20)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800	
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40	
Total BTEX	<0.300	0.300	07/25/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	07/24/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	24.2	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 80.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.8 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
AUSTIN WORLEY
5827 50TH ST. SUITE 1
LUBBOCK TX, 79424
Fax To:

Received: 07/23/2025
Reported: 07/29/2025
Project Name: JRU D17 SAWTOOTH
Project Number: AR257002
Project Location: NOT GIVEN

Sampling Date: 07/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CFS - 21 2.0 (H254454-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800		
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40		
Total BTEx	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	07/24/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	21.5	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 84.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.0 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
AUSTIN WORLEY
5827 50TH ST. SUITE 1
LUBBOCK TX, 79424
Fax To:

Received: 07/23/2025
Reported: 07/29/2025
Project Name: JRU D17 SAWTOOTH
Project Number: AR257002
Project Location: NOT GIVEN

Sampling Date: 07/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CFS - 22 2.0 (H254454-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800		
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40		
Total BTEX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	07/24/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	36.1	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 81.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 23 2.0 (H254454-23)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800	
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40	
Total BTEx	<0.300	0.300	07/25/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	07/24/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 78.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 24 2.0 (H254454-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800		
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40		
Total BTEx	<0.300	0.300	07/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	07/24/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	10.5	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 85.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.3 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 25 2.0 (H254454-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800		
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40		
Total BTEx	<0.300	0.300	07/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1740	16.0	07/24/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 68.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.4 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 26 2.0 (H254454-26)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800	
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40	
Total BTEx	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	07/24/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.0 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 27 2.0 (H254454-27)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800	
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40	
Total BTEx	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	07/24/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 80.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.9 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 28 1.0 (H254454-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.85	92.5	2.00	0.800		
Toluene*	<0.050	0.050	07/25/2025	ND	1.96	98.1	2.00	0.945		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.03	101	2.00	1.33		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.35	106	6.00	1.40		
Total BTEx	<0.300	0.300	07/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	07/24/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 84.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.1 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
AUSTIN WORLEY
5827 50TH ST. SUITE 1
LUBBOCK TX, 79424
Fax To:

Received: 07/23/2025
Reported: 07/29/2025
Project Name: JRU D17 SAWTOOTH
Project Number: AR257002
Project Location: NOT GIVEN

Sampling Date: 07/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CFS - 29 1.0 (H254454-29)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.87	93.6	2.00	10.3	
Toluene*	<0.050	0.050	07/25/2025	ND	1.99	99.7	2.00	10.0	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.04	102	2.00	7.31	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.42	107	6.00	6.96	QM-07
Total BTEx	<0.300	0.300	07/25/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/24/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 80.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.4 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
AUSTIN WORLEY
5827 50TH ST. SUITE 1
LUBBOCK TX, 79424
Fax To:

Received: 07/23/2025
Reported: 07/29/2025
Project Name: JRU D17 SAWTOOTH
Project Number: AR257002
Project Location: NOT GIVEN

Sampling Date: 07/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CFS - 30 1.0 (H254454-30)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.87	93.6	2.00	10.3	
Toluene*	<0.050	0.050	07/25/2025	ND	1.99	99.7	2.00	10.0	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.04	102	2.00	7.31	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.42	107	6.00	6.96	
Total BTEX	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	07/24/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	182	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 81.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.4 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 31 1.0 (H254454-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.87	93.6	2.00	10.3		
Toluene*	<0.050	0.050	07/25/2025	ND	1.99	99.7	2.00	10.0		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.04	102	2.00	7.31		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.42	107	6.00	6.96		
Total BTEx	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	07/24/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 32 1.0 (H254454-32)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.87	93.6	2.00	10.3	
Toluene*	<0.050	0.050	07/25/2025	ND	1.99	99.7	2.00	10.0	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.04	102	2.00	7.31	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.42	107	6.00	6.96	
Total BTEX	<0.300	0.300	07/25/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	07/24/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	33.4	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 83.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 33 1.0 (H254454-33)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.87	93.6	2.00	10.3		
Toluene*	<0.050	0.050	07/25/2025	ND	1.99	99.7	2.00	10.0		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.04	102	2.00	7.31		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.42	107	6.00	6.96		
Total BTEX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	07/24/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	198	99.2	200	0.312	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	191	95.4	200	0.592	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.8 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 34 1.0 (H254454-34)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.87	93.6	2.00	10.3	
Toluene*	<0.050	0.050	07/25/2025	ND	1.99	99.7	2.00	10.0	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.04	102	2.00	7.31	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.42	107	6.00	6.96	
Total BTEX	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	07/24/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2025	ND	217	108	200	1.17	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	212	106	200	0.301	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.3 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 35 1.0 (H254454-35)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.87	93.6	2.00	10.3	
Toluene*	<0.050	0.050	07/25/2025	ND	1.99	99.7	2.00	10.0	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.04	102	2.00	7.31	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.42	107	6.00	6.96	
Total BTEX	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/24/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2025	ND	217	108	200	1.17	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	212	106	200	0.301	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane 96.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.9 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 36 1.0 (H254454-36)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.87	93.6	2.00	10.3	
Toluene*	<0.050	0.050	07/25/2025	ND	1.99	99.7	2.00	10.0	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.04	102	2.00	7.31	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.42	107	6.00	6.96	
Total BTEX	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/24/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2025	ND	217	108	200	1.17	
DRO >C10-C28*	20.9	10.0	07/24/2025	ND	212	106	200	0.301	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.8 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 37 1.0 (H254454-37)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.87	93.6	2.00	10.3		
Toluene*	<0.050	0.050	07/25/2025	ND	1.99	99.7	2.00	10.0		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.04	102	2.00	7.31		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.42	107	6.00	6.96		
Total BTEx	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4520	16.0	07/24/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2025	ND	217	108	200	1.17	
DRO >C10-C28*	54.5	10.0	07/24/2025	ND	212	106	200	0.301	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane 98.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.3 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 38 2.5 (H254454-38)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.87	93.6	2.00	10.3		
Toluene*	<0.050	0.050	07/25/2025	ND	1.99	99.7	2.00	10.0		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.04	102	2.00	7.31		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.42	107	6.00	6.96		
Total BTEx	<0.300	0.300	07/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1120	16.0	07/24/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2025	ND	217	108	200	1.17	
DRO >C10-C28*	67.4	10.0	07/24/2025	ND	212	106	200	0.301	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.9 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 39 2.5 (H254454-39)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.87	93.6	2.00	10.3		
Toluene*	<0.050	0.050	07/25/2025	ND	1.99	99.7	2.00	10.0		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.04	102	2.00	7.31		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.42	107	6.00	6.96		
Total BTEx	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	07/24/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2025	ND	217	108	200	1.17	
DRO >C10-C28*	23.2	10.0	07/24/2025	ND	212	106	200	0.301	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 40 1.5 (H254454-40)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.87	93.6	2.00	10.3		
Toluene*	<0.050	0.050	07/25/2025	ND	1.99	99.7	2.00	10.0		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.04	102	2.00	7.31		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.42	107	6.00	6.96		
Total BTEX	<0.300	0.300	07/25/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	07/24/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2025	ND	217	108	200	1.17	
DRO >C10-C28*	25.2	10.0	07/24/2025	ND	212	106	200	0.301	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane 96.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
AUSTIN WORLEY
5827 50TH ST. SUITE 1
LUBBOCK TX, 79424
Fax To:

Received: 07/23/2025
Reported: 07/29/2025
Project Name: JRU D17 SAWTOOTH
Project Number: AR257002
Project Location: NOT GIVEN

Sampling Date: 07/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CFS - 41 1.0 (H254454-41)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.87	93.6	2.00	10.3	
Toluene*	<0.050	0.050	07/25/2025	ND	1.99	99.7	2.00	10.0	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.04	102	2.00	7.31	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.42	107	6.00	6.96	
Total BTEX	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	07/24/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2025	ND	217	108	200	1.17	
DRO >C10-C28*	83.0	10.0	07/24/2025	ND	212	106	200	0.301	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane 99.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
AUSTIN WORLEY
5827 50TH ST. SUITE 1
LUBBOCK TX, 79424
Fax To:

Received: 07/23/2025
Reported: 07/29/2025
Project Name: JRU D17 SAWTOOTH
Project Number: AR257002
Project Location: NOT GIVEN

Sampling Date: 07/22/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CFS - 42 1.0 (H254454-42)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.87	93.6	2.00	10.3	
Toluene*	<0.050	0.050	07/25/2025	ND	1.99	99.7	2.00	10.0	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.04	102	2.00	7.31	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.42	107	6.00	6.96	
Total BTEX	<0.300	0.300	07/25/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	07/24/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2025	ND	217	108	200	1.17	
DRO >C10-C28*	42.3	10.0	07/24/2025	ND	212	106	200	0.301	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 43 1.0 (H254454-43)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.87	93.6	2.00	10.3	
Toluene*	<0.050	0.050	07/25/2025	ND	1.99	99.7	2.00	10.0	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.04	102	2.00	7.31	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.42	107	6.00	6.96	
Total BTEX	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	07/24/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2025	ND	217	108	200	1.17	
DRO >C10-C28*	45.5	10.0	07/24/2025	ND	212	106	200	0.301	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 44 1.0 (H254454-44)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.87	93.6	2.00	10.3		
Toluene*	<0.050	0.050	07/25/2025	ND	1.99	99.7	2.00	10.0		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.04	102	2.00	7.31		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.42	107	6.00	6.96		
Total BTEx	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	07/24/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2025	ND	217	108	200	1.17	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	212	106	200	0.301	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.6 % 40.6-153

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/23/2025
 Reported: 07/29/2025
 Project Name: JRU D17 SAWTOOTH
 Project Number: AR257002
 Project Location: NOT GIVEN

Sampling Date: 07/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CFS - 45 1.0 (H254454-45)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2025	ND	1.87	93.6	2.00	10.3		
Toluene*	<0.050	0.050	07/25/2025	ND	1.99	99.7	2.00	10.0		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.04	102	2.00	7.31		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.42	107	6.00	6.96		
Total BTEx	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	07/24/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	213	107	200	0.356	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	203	102	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.1 % 40.6-153

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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





Celey D. Keene, Lab Director/Quality Manager

Page 49 of 52

CHAIN OF CUSTODY RECORD

					Laboratory: Cardinal Laboratories Address: _____ Phone: _____ Contact: _____					ANALYSIS REQUESTED BTEX _____ TPH _____ Chloride _____					LAB USE ONLY DUE DATE: _____ TEMP OF COOLER WHEN RECEIVED (°C) 0.8 Page <u>3</u> of <u>5</u> C-03 #210			
					Office Location: Lubbock, Texas Project Manager: Austin Worley Sampler's Name: Daniel Pavelka Sampler's Signature: 													
Project Number: AR257002 Project Name: JRU D17 Sawtooth No. Type of Containers: _____																		
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth (FT)	End Depth (FT)	4 oz Glass					BTEX	TPH	Chloride			Lab Sample ID
S	7/22/2025	13:24	X		CFS-23		2.0	1					X	X	X			23
S	7/22/2025	13:26	X		CFS-24		2.0	1					X	X	X			24
S	7/22/2025	13:28	X		CFS-25		2.0	1					X	X	X			25
S	7/22/2025	13:30	X		CFS-26		2.0	1					X	X	X			26
S	7/22/2025	13:32	X		CFS-27		2.0	1					X	X	X			27
S	7/22/2025	13:34	X		CFS-28		1.0	1					X	X	X			28
S	7/22/2025	13:36	X		CFS-29		1.0	1					X	X	X			29
S	7/22/2025	13:38	X		CFS-30		1.0	1					X	X	X			30
S	7/22/2025	13:40	X		CFS-31		1.0	1					X	X	X			31
S	7/22/2025	13:42	X		CFS-32		1.0	1					X	X	X			32
S	7/22/2025	13:44	X		CFS-33		1.0	1					X	X	X			33
TURNAROUND TIME: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 48-Hour Rush <input type="checkbox"/> 24-Hour Rush TRRP Laboratory Review Checklist: <input type="checkbox"/> Yes <input type="checkbox"/> No																		
Bill To: Terracon e-mail results to: austin.worley@terracon.com joseph.guesnier@terracon.com daniel.pavelka@terracon.com																		
Lubbock Office ■ 5847 50th Street ■ Lubbock, Texas 79424 ■ 806-300-0140 Responsive ■ Resourceful ■ Reliable																		

CHAIN OF CUSTODY RECORD

					Laboratory: Cardinal Laboratories Address: _____ Phone: _____ Contact: _____					ANALYSIS REQUESTED BTEX _____ TPH _____ Chloride _____ _____ _____ _____					LAB USE ONLY DUE DATE: _____ TEMP OF COOLER WHEN RECEIVED (°C) <u>0.8</u> Page <u>4</u> of <u>5</u> <u>C-108</u> <u>#140</u>					
					Office Location: Lubbock, Texas Project Manager: Austin Worley Sampler's Name: Daniel Pavelka Sampler's Signature: 															
Project Number: AR257002 Project Name: JRU D17 Sawtooth No. Type of Containers: _____ 4 oz Glass: _____																				
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth (FT)	End Depth (FT)	4 oz Glass					BTEX	TPH	Chloride					
S	7/22/2025	13:46	X		CFS-34		1.0	1					X	X	X					
S	7/22/2025	13:48	X		CFS-35		1.0	1					X	X	X					
S	7/22/2025	13:50	X		CFS-36		1.0	1					X	X	X					
S	7/22/2025	13:52	X		CFS-37		1.0	1					X	X	X					
S	7/22/2025	13:54	X		CFS-38		2.5	1					X	X	X					
S	7/22/2025	13:56	X		CFS-39		2.5	1					X	X	X					
S	7/22/2025	13:58	X		CFS-40		1.5	1					X	X	X					
S	7/22/2025	14:00	X		CFS-41		1.0	1					X	X	X					
S	7/22/2025	14:02	X		CFS-42		1.0	1					X	X	X					
S	7/22/2025	14:04	X		CFS-43		1.0	1					X	X	X					
S	7/22/2025	14:06	X		CFS-44		1.0	1					X	X	X					
TURNAROUND TIME: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 48-Hour Rush <input type="checkbox"/> 24-Hour Rush TRRP Laboratory Review Checklist: <input type="checkbox"/> Yes <input type="checkbox"/> No																				
Subsampled by (Signature): 					Date: 7/23/25		Time: 1451		Received by (Signature): 					Date: 7/23/25					Time: 1451	
Subsampled by (Signature): _____					Date: _____		Time: _____		Received by (Signature): _____					Date: _____					Time: _____	
Subsampled by (Signature): _____					Date: _____		Time: _____		Received by (Signature): _____					Date: _____					Time: _____	
Subsampled by (Signature): _____					Date: _____		Time: _____		Received by (Signature): _____					Date: _____					Time: _____	
Bill To: Terracon e-mail results to: austin.worley@terracon.com joseph.guesnier@terracon.com daniel.pavelka@terracon.com																				
Lubbock Office ■ 5847 50th Street ■ Lubbock, Texas 79424 ■ 806-300-0140 Responsive ■ Resourceful ■ Reliable																				

<div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> Lubbock Office 5847 50th Street Lubbock, Texas 79424 806-300-0140 </div>										CHAIN OF CUSTODY RECORD																																	
Laboratory: Cardinal Laboratories Address: _____ Phone: _____ Contact: _____										ANALYSIS REQUESTED <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> </div> </div> </div>																																	
Office Location Lubbock, Texas Project Manager Austin Worley Sampler's Name Daniel Pavelka										LAB USE ONLY DUE DATE: _____ TEMP OF COOLER WHEN RECEIVED (°C) 0.0-1.12 Page 5 of 5 CtoB: this hasuhsu Lab Sample ID 45																																	
Project Number AR257002 Project Name JRU D17 Sawtooth No. Type of Containers										Matrix Date Time Comp Grab Identifying Marks of Sample(s) Start Depth (FT) End Depth (FT) 4 oz Glass BTEX TPH Chloride																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">Matrix</th> <th style="width: 10%;">Date</th> <th style="width: 10%;">Time</th> <th style="width: 5%;">Comp</th> <th style="width: 5%;">Grab</th> <th style="width: 30%;">Identifying Marks of Sample(s)</th> <th style="width: 10%;">Start Depth (FT)</th> <th style="width: 10%;">End Depth (FT)</th> <th style="width: 10%;">4 oz Glass</th> <th style="width: 10%;">BTEX</th> <th style="width: 10%;">TPH</th> <th style="width: 10%;">Chloride</th> </tr> <tr> <td>S</td> <td>7/22/2025</td> <td>14:08</td> <td>X</td> <td></td> <td>CFS-45</td> <td></td> <td>1.0</td> <td>1</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>										Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth (FT)	End Depth (FT)	4 oz Glass	BTEX	TPH	Chloride	S	7/22/2025	14:08	X		CFS-45		1.0	1	X	X	X	TURNAROUND TIME <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 48-Hour Rush <input type="checkbox"/> 24-Hour Rush TRRP Laboratory Review Checklist <input type="checkbox"/> Yes <input type="checkbox"/> No									
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth (FT)	End Depth (FT)	4 oz Glass	BTEX	TPH	Chloride																																
S	7/22/2025	14:08	X		CFS-45		1.0	1	X	X	X																																
Requested by (Signature) Date: 7/23/25 Time: 1451 Requested by (Signature) _____ Date: _____ Time: _____ Requested by (Signature) _____ Date: _____ Time: _____ Requested by (Signature) _____ Date: _____ Time: _____										Received by (Signature) Date: 7-23-25 Time: 1451 Received by (Signature) _____ Date: _____ Time: _____ Received by (Signature) _____ Date: _____ Time: _____ Received by (Signature) _____ Date: _____ Time: _____																																	
Bill To: Terracon e-mail results to: austin.worley@terracon.com joseph.guesnier@terracon.com daniel.pavelka@terracon.com										Matrix Container Volume Notes																																	
Matrix Container Volume Notes										Matrix Container Volume Notes																																	



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

October 09, 2025

AUSTIN WORLEY

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: JRU DI 7 SAWTOOTH

Enclosed are the results of analyses for samples received by the laboratory on 10/03/25 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSW - 1 0.0-2.0' (H256196-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2025	ND	1.92	96.2	2.00	9.97	
Toluene*	<0.050	0.050	10/03/2025	ND	1.89	94.6	2.00	4.59	
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/03/2025	ND	6.11	102	6.00	0.488	
Total BTEX	<0.300	0.300	10/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/06/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	204	102	200	0.148	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	217	109	200	0.702	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 97.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 99.4 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
AUSTIN WORLEY
5827 50TH ST. SUITE 1
LUBBOCK TX, 79424
Fax To:

Received: 10/03/2025
Reported: 10/09/2025
Project Name: JRU DI 7 SAWTOOTH
Project Number: AR257002
Project Location: XTO

Sampling Date: 10/02/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CSW - 2 0.0-2.0' (H256196-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2025	ND	1.92	96.2	2.00	9.97	
Toluene*	<0.050	0.050	10/03/2025	ND	1.89	94.6	2.00	4.59	
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/03/2025	ND	6.11	102	6.00	0.488	
Total BTEX	<0.300	0.300	10/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/06/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	204	102	200	0.148	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	217	109	200	0.702	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 99.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 102 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSW - 3 0.0-2.0' (H256196-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2025	ND	1.92	96.2	2.00	9.97	
Toluene*	<0.050	0.050	10/03/2025	ND	1.89	94.6	2.00	4.59	
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/03/2025	ND	6.11	102	6.00	0.488	
Total BTEX	<0.300	0.300	10/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/06/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	204	102	200	0.148	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	217	109	200	0.702	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 90.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSW - 4 0.0-1.5' (H256196-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.92	96.2	2.00	9.97		
Toluene*	<0.050	0.050	10/03/2025	ND	1.89	94.6	2.00	4.59		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	1.22		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	6.11	102	6.00	0.488		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/06/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	204	102	200	0.148	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	217	109	200	0.702	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 97.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 98.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSW - 5 0.0-3.5' (H256196-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2025	ND	1.92	96.2	2.00	9.97	
Toluene*	<0.050	0.050	10/03/2025	ND	1.89	94.6	2.00	4.59	
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/03/2025	ND	6.11	102	6.00	0.488	
Total BTEX	<0.300	0.300	10/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/06/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	204	102	200	0.148	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	217	109	200	0.702	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 97.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 98.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSW - 6 0.0-3.5' (H256196-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.92	96.2	2.00	9.97		
Toluene*	<0.050	0.050	10/03/2025	ND	1.89	94.6	2.00	4.59		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	1.22		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	6.11	102	6.00	0.488		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	204	102	200	0.148	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	217	109	200	0.702	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 95.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 95.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 9.2 2.0' (H256196-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.92	96.2	2.00	9.97		
Toluene*	<0.050	0.050	10/03/2025	ND	1.89	94.6	2.00	4.59		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	1.22		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	6.11	102	6.00	0.488		
Total BTX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	10/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 80.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 76.4 % 39.9-141

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 10.2 2.0' (H256196-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2025	ND	1.92	96.2	2.00	9.97	
Toluene*	<0.050	0.050	10/03/2025	ND	1.89	94.6	2.00	4.59	
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/03/2025	ND	6.11	102	6.00	0.488	
Total BTEX	<0.300	0.300	10/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/06/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 87.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 81.1 % 39.9-141

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 11.2 2.0' (H256196-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 86.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 81.5 % 39.9-141

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 12.2 2.0' (H256196-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 94.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.1 % 39.9-141

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 14.2 3.0' (H256196-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 94.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.4 % 39.9-141

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 16.2 1.0' (H256196-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	10/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 97.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.9 % 39.9-141

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 17.2 2.0' (H256196-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 93.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.6 % 39.9-141

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Analytical Results For:

TERRACON CONSULTANTS
AUSTIN WORLEY
5827 50TH ST. SUITE 1
LUBBOCK TX, 79424
Fax To:

Received: 10/03/2025
Reported: 10/09/2025
Project Name: JRU DI 7 SAWTOOTH
Project Number: AR257002
Project Location: XTO

Sampling Date: 10/02/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CSF - 18.2 1.5' (H256196-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 100 % 52.4-130

Surrogate: 1-Chlorooctadecane 93.7 % 39.9-141

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 19.2 1.5' (H256196-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 98.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 93.7 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
AUSTIN WORLEY
5827 50TH ST. SUITE 1
LUBBOCK TX, 79424
Fax To:

Received: 10/03/2025
Reported: 10/09/2025
Project Name: JRU DI 7 SAWTOOTH
Project Number: AR257002
Project Location: XTO

Sampling Date: 10/02/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CSF - 20.2 1.5' (H256196-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.9 % 39.9-141

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 24.2 3.0' (H256196-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 80.2 % 39.9-141

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 25.2 3.0' (H256196-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/06/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 92.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.6 % 39.9-141

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 31.2 1.5' (H256196-19)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 90.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.9 % 39.9-141

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 32.2 1.5' (H256196-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 86.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 80.6 % 39.9-141

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 37.2 3.5' (H256196-21)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 71.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 65.1 % 39.9-141

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 38.2 3.5' (H256196-22)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.0 % 39.9-141

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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 39.2 3.5' (H256196-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/06/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 82.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.7 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
AUSTIN WORLEY
5827 50TH ST. SUITE 1
LUBBOCK TX, 79424
Fax To:

Received: 10/03/2025
Reported: 10/09/2025
Project Name: JRU DI 7 SAWTOOTH
Project Number: AR257002
Project Location: XTO

Sampling Date: 10/02/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CSF - 41.2 2.0' (H256196-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72	
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78	
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12	
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65	
Total BTEX	<0.300	0.300	10/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/06/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 95.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 42.2 2.0' (H256196-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/05/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/05/2025	ND					

Surrogate: 1-Chlorooctane 90.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 43.2 2.0' (H256196-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2025	ND	216	108	200	1.35	
DRO >C10-C28*	<10.0	10.0	10/05/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/05/2025	ND					

Surrogate: 1-Chlorooctane 86.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 44.2 2.0' (H256196-27)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/06/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	172	86.1	200	5.27	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	175	87.4	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 73.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.3 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 AUSTIN WORLEY
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 10/03/2025
 Reported: 10/09/2025
 Project Name: JRU DI 7 SAWTOOTH
 Project Number: AR257002
 Project Location: XTO

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: CSF - 45.2 1.5' (H256196-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.67	83.5	2.00	7.72		
Toluene*	<0.050	0.050	10/03/2025	ND	1.91	95.6	2.00	7.78		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	2.01	101	2.00	6.12		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	5.68	94.7	6.00	5.65		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/06/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2025	ND	172	86.1	200	5.27	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	175	87.4	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 72.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 72.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN OF CUSTODY RECORD

						Laboratory: Cardinal Laboratories Address: 101 E Marland St #101 Hobbs, NM 88240				ANALYSIS REQUESTED				LAB USE ONLY DUE DATE:			
						Phone: _____ Contact: _____											
Office Location: Lubbock, Texas Project Manager: Austin Worley												TEMP OF COOLER WHEN RECEIVED (°C) 5.3 4.1 Page <u>1</u> of <u>3</u> C10-32 +40 on ice H250190 Lab Sample ID					
Sampler's Name: Zach Mueller Sampler's Signature: Zach R. Mueller																	
Project Number: AR257002 Project Name: JRU DI 7 SAWTOOTH						No. Type of Containers:											
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth (FT)	End Depth (FT)	4 oz Glass					BTEX	TPH	Chloride		
S	10/2/2025	11:00	X		CSW-1	0.0	2.0	1					X	X	X		
S	10/2/2025	11:05	X		CSW-2	0.0	2.0	1					X	X	X		
S	10/2/2025	11:10	X		CSW-3	0.0	2.0	1					X	X	X		
S	10/2/2025	11:15	X		CSW-4	0.0	1.5	1					X	X	X		
S	10/2/2025	11:20	X		CSW-5	0.0	3.5	1					X	X	X		
S	10/2/2025	11:25	X		CSW-6	0.0	3.5	1					X	X	X		
S	10/2/2025	11:30	X		CSF-9.2	-	2.0	1					X	X	X		
S	10/2/2025	11:35	X		CSF-10.2	-	2.0	1					X	X	X		
S	10/2/2025	11:40	X		CSF-11.2	-	2.0	1					X	X	X		
S	10/2/2025	11:45	X		CSF-12.2	-	2.0	1					X	X	X		
S	10/2/2025	11:50	X		CSF-14.2	-	3.0	1					X	X	X		
TURNAROUND TIME: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 48-Hour Rush <input type="checkbox"/> 24-Hour Rush																	
TRRP Laboratory Review Checklist <input type="checkbox"/> Yes <input type="checkbox"/> No																	
Relinquished by (Signature): Zach R. Mueller						Date: 10/2/25		Time: 16:45		Received by (Signature): Austin Worley							
Relinquished by (Signature): Austin Worley						Date: 10/3/25		Time: 13:52		Received by (Signature): Joseph Guesnier							
Relinquished by (Signature):						Date:		Time:		Received by (Signature):							
Relinquished by (Signature):						Date:		Time:		Received by (Signature):							
Bill To: XTO Energy Cost Code: 2240971001																	
e-mail results to: zach.mueller@terracon.com joseph.guesnier@terracon.com austin.worley@terracon.com																	
Lubbock Office ■ 5847 50th Street ■ Lubbock, Texas 79424 ■ 806-300-0140 Responsive ■ Resourceful ■ Reliable																	

CHAIN OF CUSTODY RECORD

					Laboratory: Cardinal Laboratories Address: 101 E Marland St #101 Hobbs, NM 88240 Phone: _____ Contact: _____					ANALYSIS REQUESTED					LAB USE ONLY DUE DATE:		
Office Location: Lubbock, Texas Project Manager: Austin Worley Sampler's Name: Zach Mueller					Sampler's Signature: <i>Zach R. Mueller</i>					TEMP OF COOLER WHEN RECEIVED (°C): 5.8°C / 4.1°C Page 2 of 3 C1031 #140 on ice HASL1940 Lab Sample ID							
Project Number: AR257002 Project Name: JRU DI 7 SAWTOOTH No. Type of Containers:					Identifying Marks of Sample(s)					No. Type of Containers:							
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth (FT)	End Depth (FT)	4 oz Glass	RTX	TPH	Chloride						
S	10/2/2025	11:55	X		CSF-16.2	-	1.0	1	X	X	X						
S	10/2/2025	12:25	X		CSF-17.2	-	2.0	1	X	X	X						
S	10/2/2025	12:20	X		CSF-18.2	-	1.5	1	X	X	X						
S	10/2/2025	12:15	X		CSF-19.2	-	1.5	1	X	X	X						
S	10/2/2025	12:10	X		CSF-20.2	-	1.5	1	X	X	X						
S	10/2/2025	12:05	X		CSF-24.2	-	3.0	1	X	X	X						
S	10/2/2025	12:00	X		CSF-25.2	-	3.0	1	X	X	X						
S	10/2/2025	12:30	X		CSF-31.2	-	1.5	1	X	X	X						
S	10/2/2025	12:35	X		CSF-32.2	-	1.5	1	X	X	X						
S	10/2/2025	12:40	X		CSF-37.2	-	3.5	1	X	X	X						
S	10/2/2025	12:45	X		CSF-38.2	-	3.5	1	X	X	X						
TURNAROUND TIME: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 48-Hour Rush <input type="checkbox"/> 24-Hour Rush																	
TRRP Laboratory Review Checklist: <input type="checkbox"/> Yes <input type="checkbox"/> No																	
Requested by (Signature): <i>Zach R. Mueller</i>					Date: 10/2/25		Time: 16:45		Requested by (Signature): <i>Austin Worley</i>					Date: 10/2/25		Time: 16:45	
Requested by (Signature): <i>Austin Worley</i>					Date: 10/3/25		Time: 13:52		Requested by (Signature): <i>Joseph Guesnier</i>					Date: 12/3/25		Time: 13:30	
Requested by (Signature):					Date:		Time:		Requested by (Signature):					Date:		Time:	
Requested by (Signature):					Date:		Time:		Requested by (Signature):					Date:		Time:	
Bill To: XTO Energy Cost Code: 2240971001 E-mail results to: zach.mueller@terracon.com joseph.guesnier@terracon.com austin.worley@terracon.com																	
Lubbock Office ■ 5847 50th Street ■ Lubbock, Texas 79424 ■ 806-300-0140 Responsive ■ Resourceful ■ Reliable																	

CHAIN OF CUSTODY RECORD

				Laboratory: Cardinal Laboratories Address: 101 E Mariand St #101 Hobbs, NM 88240 Phone: _____ Contact: _____				ANALYSIS REQUESTED				LAB USE ONLY DUE DATE: _____				
Office Location: Lubbock, Texas				Project Manager: Austin Worley								TEMP OF COOLER WHEN RECEIVED (°C): 38 ± 0.1				
Sampler's Name: Zach Mueller				Sampler's Signature: <i>Zach R. Mueller</i>								Page 3 of 3				
Project Number: AR257002				Project Name: JRU DI 7 SAWTOOTH				No. Type of Containers				C-40 32 #140 on 1 lb				
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth (FT)	End Depth (FT)	4 oz Glass				BTEX	TPH	Chloride	Lab Sample ID	
S	10/2/2025	12:50	X		CSF-39.2	-	3.5	1				X	X	X		
S	10/2/2025	12:55	X		CSF-41.2	-	2.0	1				X	X	X		
S	10/2/2025	13:00	X		CSF-42.2	-	2.0	1				X	X	X		
S	10/2/2025	13:05	X		CSF-43.2	-	2.0	1				X	X	X		
S	10/2/2025	13:10	X		CSF-44.2	-	2.0	1				X	X	X		
S	10/2/2025	13:15	X		CSF-45.2	-	1.5	1				X	X	X		
 NFE																
TURNAROUND TIME <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 48-Hour Rush <input type="checkbox"/> 24-Hour Rush TRRP Laboratory Review Checklist <input type="checkbox"/> Yes <input type="checkbox"/> No																
Subscribed by (Signature): <i>Zach R. Mueller</i>				Date: 10/2/25		Time: 16:45		Received by (Signature): <i>Austin Worley</i>				Date: 10/2/25		Time: 16:45		Bill To: XTO Energy Cost Code: 2240971001 E-mail results to: zach.mueller@terracon.com joseph.guesnier@terracon.com austin.worley@terracon.com
Subscribed by (Signature): <i>Austin Worley</i>				Date: 10/3/25		Time: 15:52		Received by (Signature): <i>[Signature]</i>				Date: 10/3/25		Time: 13:30		
Subscribed by (Signature):				Date:		Time:		Received by (Signature):				Date:		Time:		
Subscribed by (Signature):				Date:		Time:		Received by (Signature):				Date:		Time:		
Lubbock Office ■ 5847 50th Street ■ Lubbock, Texas 79424 ■ 806-300-0140 Responsive ■ Resourceful ■ Reliable																

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 519866

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 519866
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500726282
Incident Name	NAPP2500726282 JRU DI 7 SAWTOOTH 114H @ 30-015-55006
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Well	[30-015-55006] JAMES RANCH UNIT DI 7 SAWTOOTH #114H

Location of Release Source*Please answer all the questions in this group.*

Site Name	JRU DI 7 SAWTOOTH 114H
Date Release Discovered	01/05/2025
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 Other (Specify) Produced Water Released: 5 BBL Recovered: 4 BBL Lost: 1 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)	3" L on frac missile

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QUESTIONS, Page 2

Action 519866

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 519866
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 10/24/2025
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QUESTIONS, Page 3

Action 519866

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number: 519866
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	20400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2692
GRO+DRO (EPA SW-846 Method 8015M)	2692
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	07/22/2025
On what date will (or did) the final sampling or liner inspection occur	10/02/2025
On what date will (or was) the remediation complete(d)	10/02/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	9000
What is the estimated volume (in cubic yards) that will be remediated	750
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 519866

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 519866
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112342028 LEA LAND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEEnvNotifications@exxonmobil.com Date: 10/24/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 519866

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 519866
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	production lines, wellheads and equipment servicing the same
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	17190
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	1910
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-55006 JAMES RANCH UNIT DI 7 SAWTOOTH #114H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<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: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 10/24/2025

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Action 519866

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 519866
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	510597
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/02/2025
What was the (estimated) number of samples that were to be gathered	28
What was the sampling surface area in square feet	5600

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 519866

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 519866
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
nvez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	12/22/2025