



November 21, 2025

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

Re: Remediation Work Plan
JRU DI 8 Substation (Illegal Dump)
Incident Number nAPP2524549272
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Remediation Work Plan (Work Plan)* to document assessment, delineation, and soil sampling activities for an illegal dump of crude oil that occurred along a lease road associated with the JRU DI 8 Substation (Site). The following *Work Plan* describes delineation, and soil sampling activities and proposes to excavate identified impacted soil.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit N, Section 02, Township 23 South, Range 30 East, in Eddy County, New Mexico (32.341306°, -103.854361°) and is associated with oil and gas exploration and production operations on State Trust Land managed by the New Mexico State Land Office (SLO) under Lease Number E052290011. The release extent remained on SLO managed land, but due to the proximity of Federal Land managed by the Bureau of Land Management (BLM) and the high potential of remediation activities encroaching on BLM managed land, all correspondence will include the BLM.

On August 25, 2025, an illegal dump occurred on an XTO lease road and adjacent pasture, which resulted in the release of approximately 52 barrels (bbls) of crude oil. A vacuum truck was immediately dispatched and recovered 30 bbls of released fluids. XTO submitted a Notification of Release (NOR) on September 2, 2025, and subsequently an Initial C-141 Application (C-141) on September 3, 2025, to the New Mexico Oil Conservation Division (NMOCD). The release was assigned Incident Number nAPP2524549272.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest groundwater data is from the New Mexico Office of the State Engineer (NMOSE) soil boring, permitted as C-4387, located approximately

1.13 miles northeast of the Site. The soil boring was advanced to a depth of 110 bgs with no groundwater encountered. Several additional borings are located in closer proximity to the release area, including NMOSE permitted wells C-02638, C-02734, C-03561, and C-04512, as well as United States Geological Survey (USGS) monitoring well 322036103504401. Available data from these wells were either inaccessible or indicated they were installed for delineation purposes, with completion depths generally limited to 30 feet bgs or less. The Well Log for C-4387 is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 1,794 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high potential karst designation area).

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SLO CULTURAL RESOURCES AND BIOLOGICAL REVIEW

Cultural Properties Protection

A portion of the release was identified in the pasture and as a result, the release location was assessed for determination of whether the release encroached into undisturbed areas to comply with the Cultural Properties Protection Rule (CPP) prior to disturbing the surface with mechanical equipment. An Archaeological Records Management System (ARMS) review was performed for the release extent prior to excavation, and it was determined a portion of the potential disturbance area was identified as not previously surveyed. XTO contracted Beaver Creek Archaeology (BCA) to complete a cultural survey of the areas not previously surveyed. No cultural resources were identified within and/or around the release extent requiring remediation efforts. The SLO Cultural Resources Cover Sheet is attached in Appendix B.

Biological Review

Ensolum personnel conducted a desktop review to establish if the Site is within an area of possible threatened, endangered, and sensitive wildlife and plant species, environmentally sensitive areas, surface waters, and sensitive soils.

- A review of the U.S. Fish and Wildlife Services Information for Planning and Consultation (IPaC) resources indicated there are no critical wildlife habitats at the Site, but potential habitats of the Piping Plover and Texas Hornshell Clam might exist. A review of the BLM NM Plant Wildlife Habitat maps indicated potential habitats for Scheer's beehive cactus near the Site. Threatened and endangered plant species are potentially present in the area surrounding the Site; however, no protected species were observed during remediation activities.

- The Site is located within an area of possible range of the Lesser Prairie Chicken habitat based on a review of SLO Candidate Conservation Agreement with Assurances (CCAA) map.
 - From March 1st through June 15th, no remediation activities will occur between the hours of 3:00 am to 9:00 am to protect any Lesser Prairie Chickens within the area.
- The Site is located within a high potential karst designation area, as determined by the Site Characterization.
- The Natural Resources Conservation Service (NRCS) Web Soil Survey classifies the soil type at the Site as Simona-Bippus complex, 0 to 5 percent slopes. The Simona-Bippus complex is not considered a sensitive soil per the SLO guidelines.

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On September 25, 2025, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Five delineation potholes were advanced via heavy equipment to a maximum depth of 5 feet bgs within the release extent to assess the vertical extent. Discrete soil samples were collected from each borehole at depths ranging from 0.5 feet to 5 feet bgs. In addition, thirteen soil samples (SS01 through SS13) were collected around the release extent from ground surface to assess the lateral extent of the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix D.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS01 through SS13, with the exception of SS07, indicated all COC concentrations were compliant with Closure Criteria. Delineation soil samples SS07 indicated TPH concentrations exceeded Closure Criteria and will require excavation. Laboratory analytical results for delineation soil samples PH01 through PH03 indicated chloride concentrations exceeded Closure Criteria at 0.5 feet bgs but were in compliance at 1-foot bgs. Laboratory analytical results for delineation soil samples PH04 and PH05 indicated TPH concentrations exceeded Closure Criteria at 0.5 feet bgs but were in compliance at depths ranging from 2 feet to 4 feet bgs. Laboratory analytical results are summarized in Table 1, and the complete laboratory analytical reports are included as Appendix E.

PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate soil containing elevated TPH and/or chloride concentrations exist across an approximate 9,785 square foot area and extend to depths ranging from 1-foot to 4 feet bgs. As such, XTO proposes completing the following remediation activities:

- Excavation of impacted soil to depths ranging from 1-foot to 4 feet bgs. Excavation will proceed until confirmation soil samples confirm all COC concentrations are compliant with the Closure Criteria.
- Confirmation soil samples will be collected from the floor and sidewalls at a sampling frequency representing no more than 200 square feet.
- An estimated 1,500 cubic yards of impacted soil will be excavated and disposed of at a New Mexico approved disposal facility.
- The excavation will be backfilled with locally procured material and recontoured to match pre-existing conditions. Pasture areas will be reseeded with the recommended seed mix for the respective landowner.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC



Tracy Hillard
 Project Engineer



Tacoma Morrissey
 Associate Principal

cc: Robert Woodall, XTO
 Richard Kotzur, XTO
 New Mexico State Land Office
 Bureau of Land Management

Appendices:

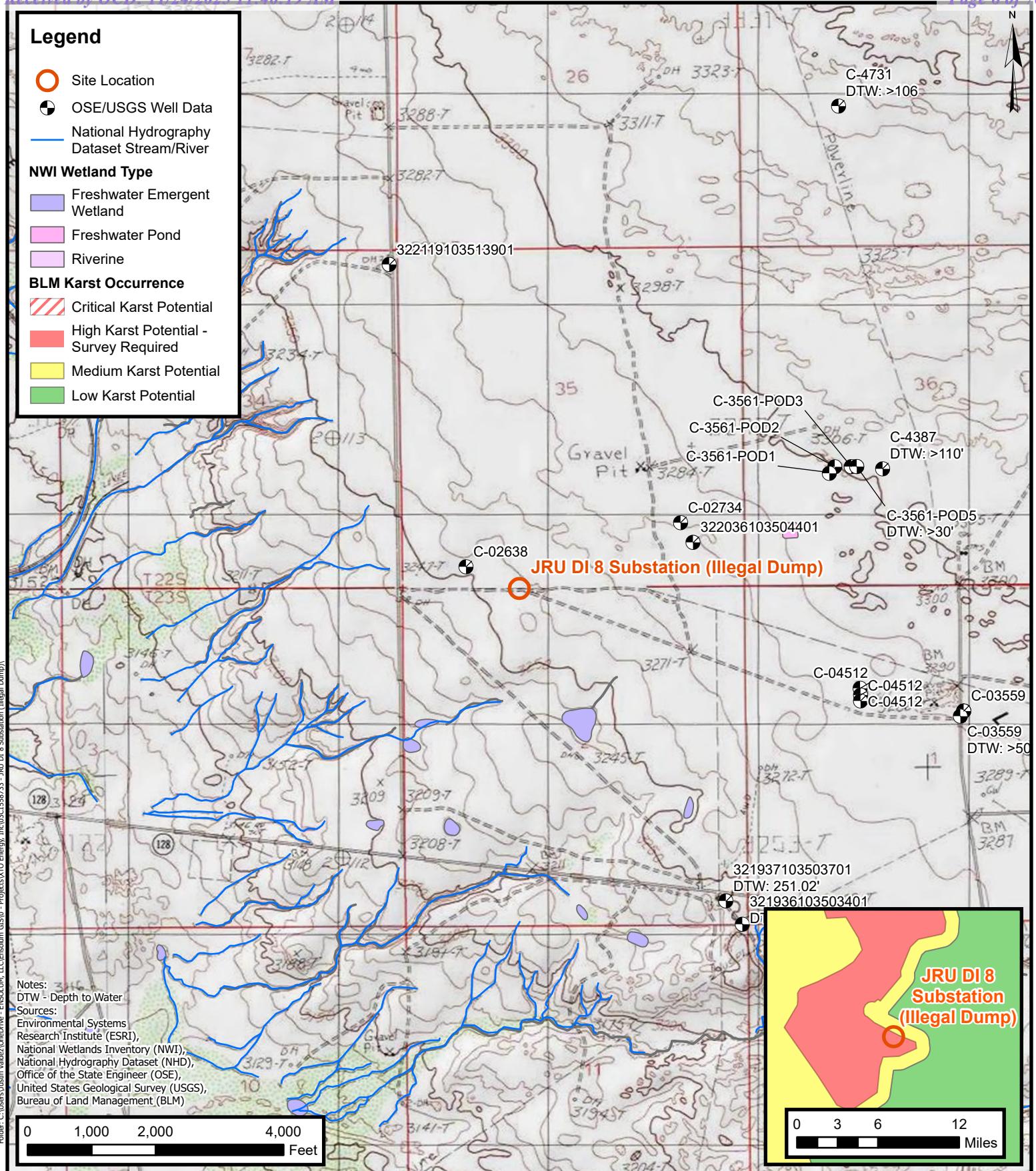
Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Land Access References
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Photographic Log
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F	Spill Volume Calculation



FIGURES

Legend

- Site Location
- OSE/USGS Well Data
- National Hydrography Dataset Stream/River
- NWI Wetland Type**
 - Freshwater Emergent Wetland
 - Freshwater Pond
 - Riverine
- BLM Karst Occurrence**
 - Critical Karst Potential
 - High Karst Potential - Survey Required
 - Medium Karst Potential
 - Low Karst Potential

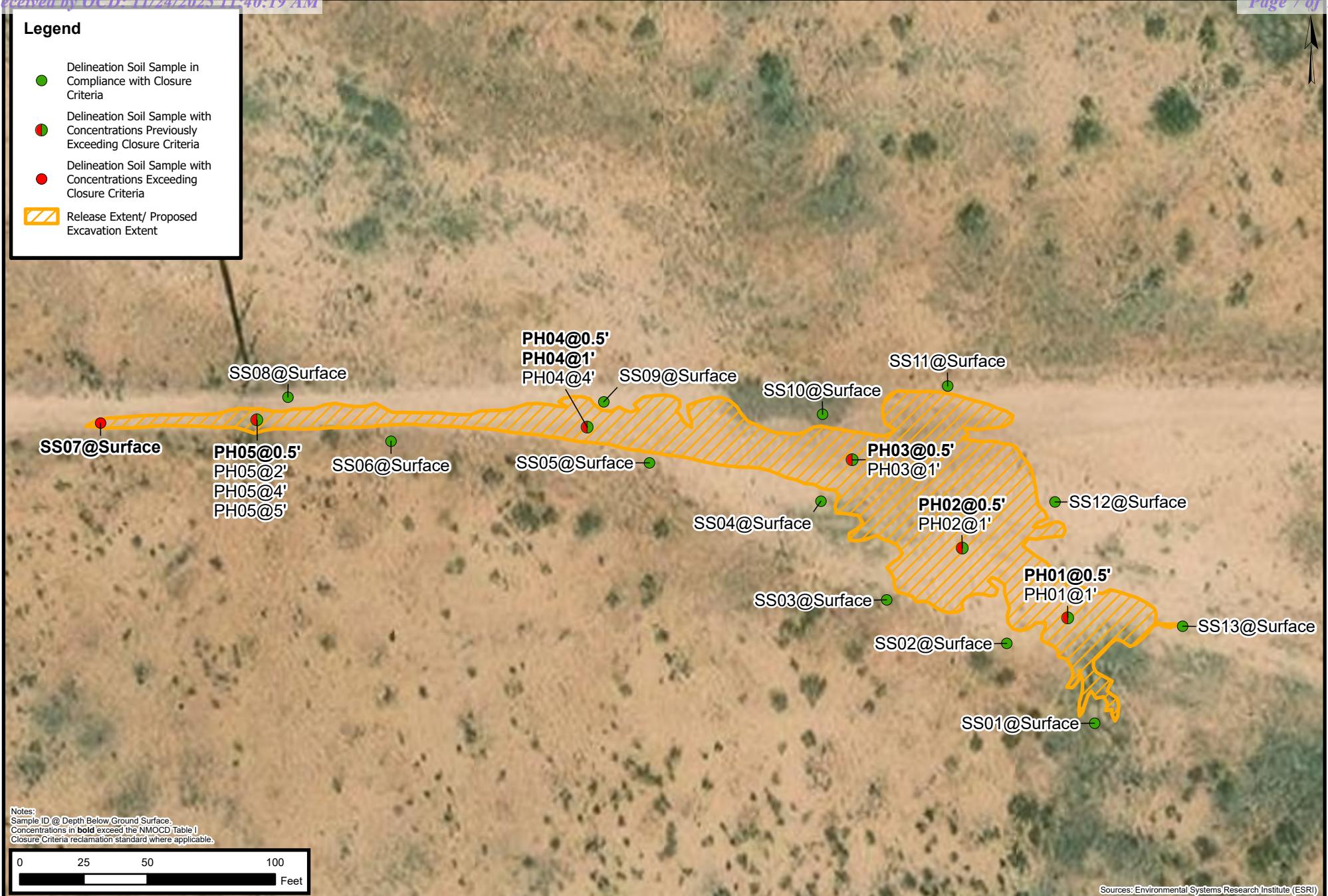


Site Receptor Map
XTO Energy, Inc
JRU DI 8 Substation (Illegal Dump)
Incident Number: nAPP2524549272
Unit N, Section 02, T 23S, R 30E
Eddy County, New Mexico

FIGURE
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- Release Extent/ Proposed Excavation Extent



Delineation Soil Sample Locations

XTO Energy, Inc
JRU DI 8 Substation (Illegal Dump)
Incident Number: nAPP2524549272
Unit N, Section 02, T 23S, R 30E
Eddy County, New Mexico



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
JRU DI 8 Substation (Illegal Dump)
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)		10	50	NE	NE	NE	NE	NE	100	600
Delineation Soil Samples										
PH01	09/25/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,880
PH01	09/25/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH02	09/25/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,140
PH02	09/25/2025	1	<0.050	<0.300	<10.0	17.9	<10.0	17.9	17.9	48.0
PH03	09/25/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,000
PH03	09/25/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
PH04	09/25/2025	0.5	<0.050	<0.300	<10.0	413	78.7	413	492	32.0
PH04	09/25/2025	1	<0.050	<0.300	<10.0	337	59.1	337	396	48.0
PH04	09/25/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH05	09/25/2025	0.5	<0.050	<0.300	<10.0	140	20.7	140	161	64.0
PH05	09/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH05	09/25/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH05	09/25/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS01	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS02	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS03	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS04	09/25/2025	Surface	<0.050	<0.300	<10.0	10.2	<10.0	10.2	10.2	48.0
SS05	09/25/2025	Surface	<0.050	<0.300	<10.0	13.8	<10.0	13.8	13.8	<16.0
SS06	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS07	09/25/2025	Surface	<0.050	<0.300	<10.0	121	33.6	121	155	32.0
SS08	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS09	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS10	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS11	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS12	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS13	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

FOR OSE INTERNAL USE

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

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



APPENDIX B

Land Access References



NMSLO Cultural Resources Cover Sheet

Survey Complete Form

To: Cultural Resources Office, New Mexico State Land Office, Santa Fe, New Mexico

Re: Proposed "XTO's JRU DI 8 Substation Illegal Dump Remediation" project

Notification of Intent to Survey ID: N-20250905-002822

Cultural Resource Survey

NMCRIS Activity No.: 159520

Findings: Negative

Have avoidance and protection Measures been devised? Yes

Comments: The NMCRIS and BLM records checks did not reveal any previously recorded sites within or within 100' of the inventory area. During the current inventory, one IO, a solder dot tin can, was encountered within the previously surveyed area. As no additional cultural material, features, or evidence thereof was observed during the pedestrian inventory, BCA recommends a finding of No Historic Properties Affected with no further archaeological work.

Submitted on: 9/19/2025 at 2:29 PM MDT

Proposed Project Details

Permitted Cultural Consultant Name: Beaver Creek Archaeology

Permitted Cultural Consultant Phone Number:
(701) 663 - 5521

Permitted Cultural Consultant Email Address:
rhanley@bcarch.org

Ensolum on behalf of XTO has contracted Beaver Creek Archaeology to conduct a cultural resources survey for a proposed project "XTO's JRU DI 8 Substation Illegal Dump Remediation" located on New Mexico State Trust Lands in T23S R30E S2; T22S R30E S35 in Eddy. The survey is estimated to begin on 09/05/2025. The total acreage of the proposed project area is 6.45. The Lead Agency for this project is BLM.

NMSLO Administrative Use Only:

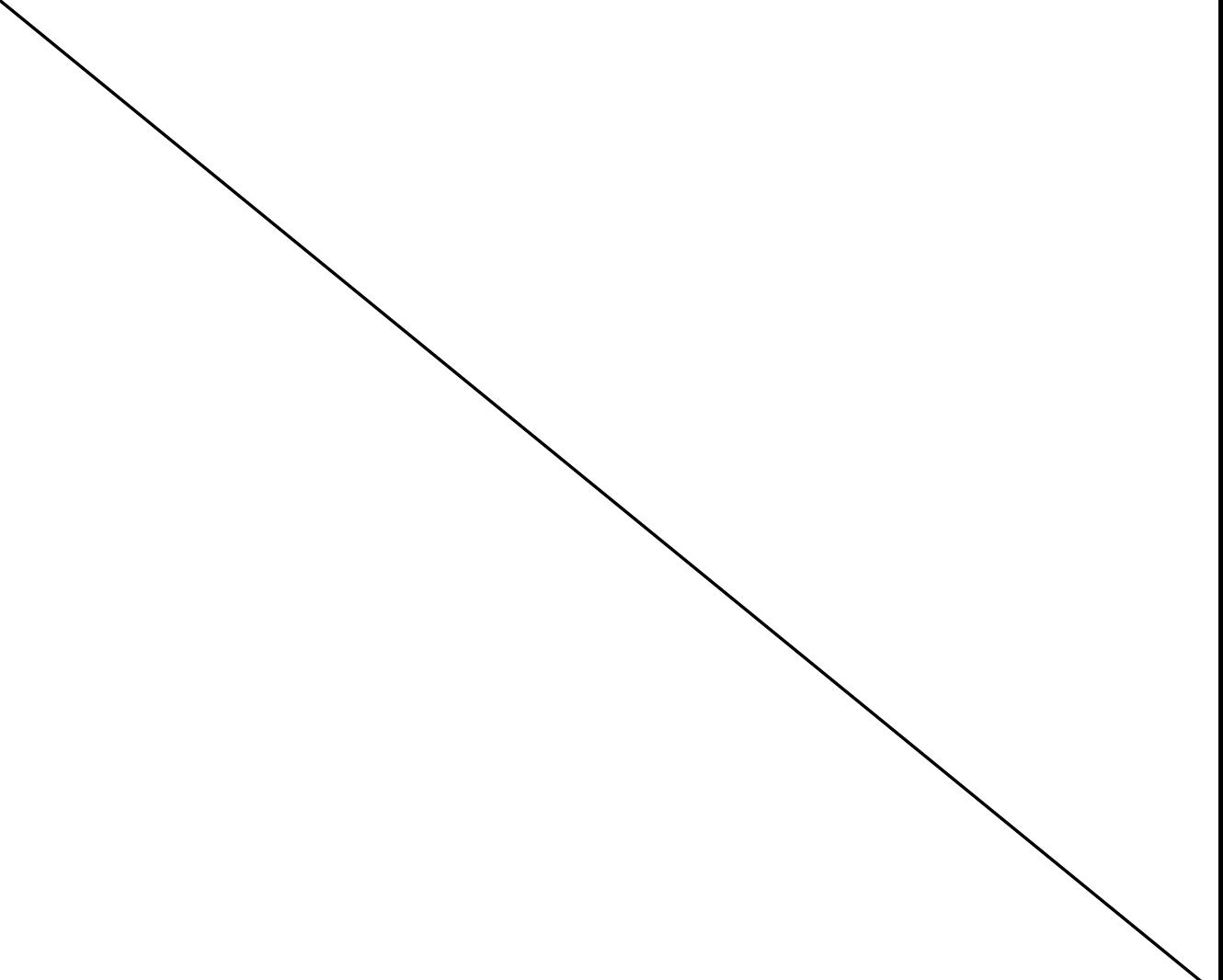
NMSLO Lease Number: _____

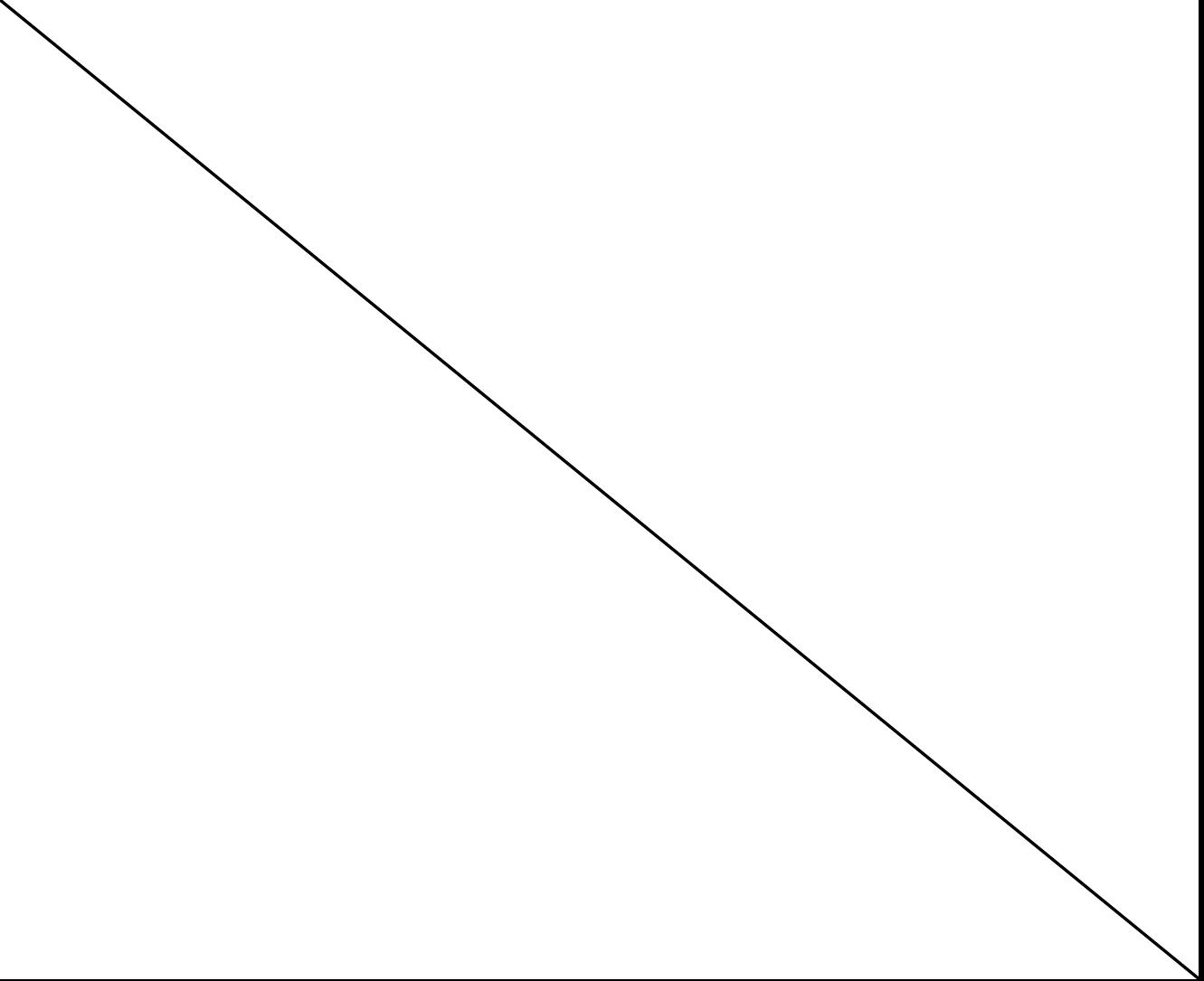
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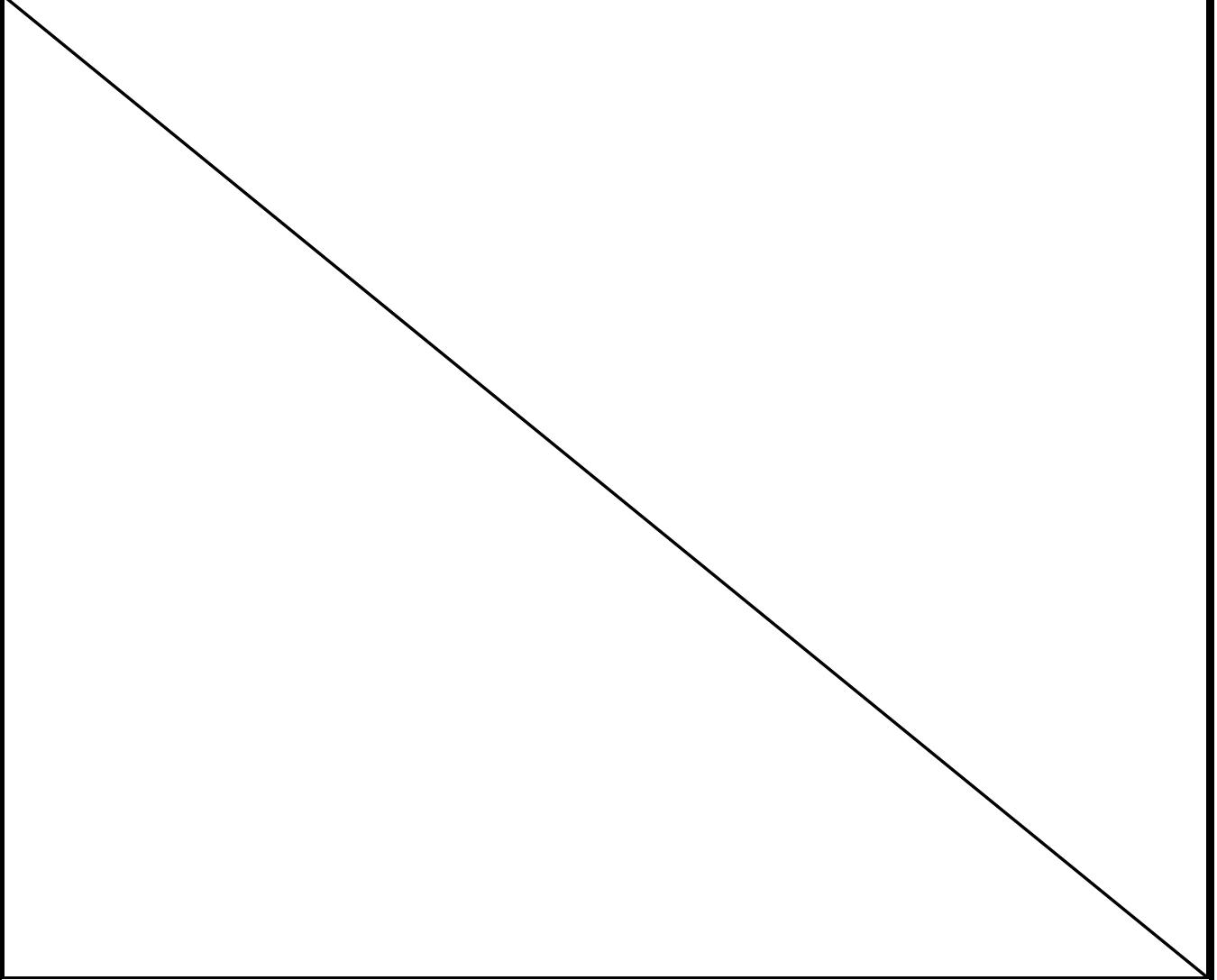


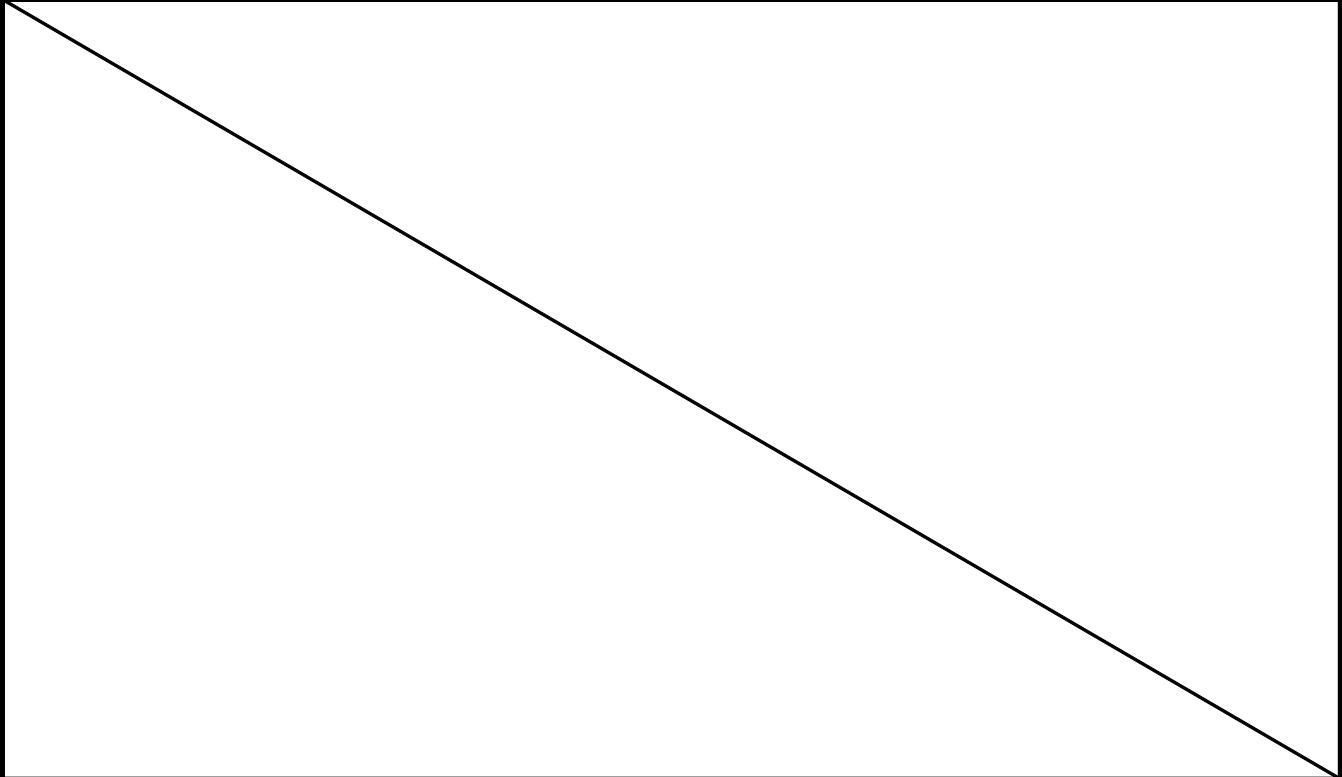
APPENDIX C

Lithologic Soil Sampling Logs

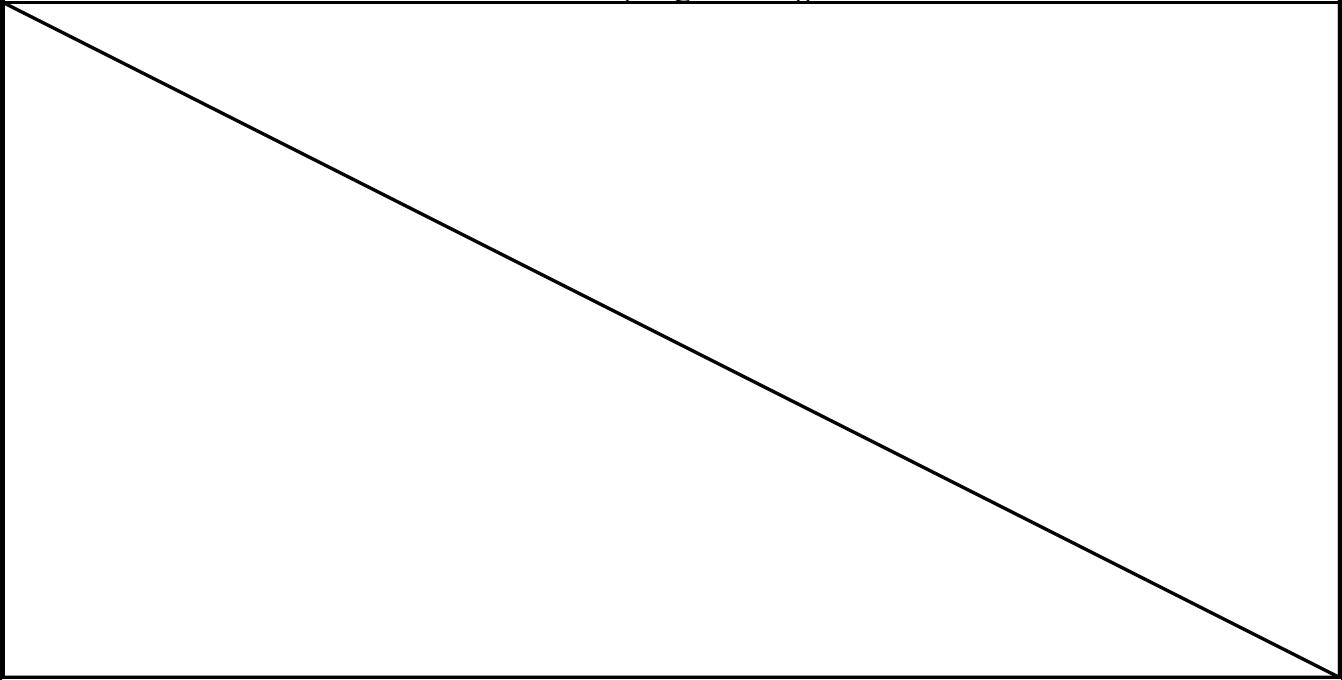
 ENSOLUM								Sample Name: PH01	Date: 9-25-2025
								Site Name: JRU DI 8 Substation (Illegal Dump)	
								Incident Number: nAPP2524549272	
								Job Number: 03C1558733	
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Evan Roe	Method: Backhoe
Coordinates: 32.341110, -103.854378								Hole Diameter: 2ft	Total Depth: 1ft
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor for chlorides is included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
Dry	3976	2.2	Y	PH01	0.5	0	SM	(0-1') SAND. Brown. Uniform. Staining. Weak odor.	
Dry	<156	1.8	N	PH01	1	1		(@1') No staining or odor.	
Total Depth @ 1-foot bgs									
									

 ENSOLUM							Sample Name: PH02	Date: 9-25-2025					
							Site Name: JRU DI 8 Substation (Illegal Dump)						
							Incident Number: nAPP2524549272						
							Job Number: 03C1558733						
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Evan Roe	Method: Backhoe					
Coordinates: 32.341186, -103.854511							Hole Diameter: 2ft	Total Depth: 1ft					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor for chlorides is included.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
Dry	1886	1.3	Y	PH02	0.5	0	SM	(0-1') SAND. Brown. Uniform. Staining. No odor.					
Dry	<156	0.7	N	PH02	1	1		(@1') No staining or odor.					
Total Depth @ 1-foot bgs													
													

 ENSOLUM								Sample Name: PH03	Date: 9-25-2025	
								Site Name: JRU DI 8 Substation (Illegal Dump)		
								Incident Number: nAPP2524549272		
								Job Number: 03C1558733		
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Evan Roe	Method:	
Coordinates: 32.341282, -103.854650								Hole Diameter: 2ft	Total Depth: 1ft	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor for chlorides is included.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
Dry	3483	1.0	Y	PH03	0.5	0	SC	(0-1') CLAYEY SAND. Brown. Uniform. Staining. No odor.		
Dry	<156	1.3	N	PH03	1	1		(@1') No staining or odor.		
Total Depth @ 1-foot bgs										
										

 ENSOLUM							Sample Name: PH04	Date: 9-25-2025					
							Site Name: JRU DI 8 Substation (Illegal Dump)						
							Incident Number: nAPP2524549272						
							Job Number: 03C1558733						
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Evan Roe	Method: Backhoe					
Coordinates: 32.341321, -103.854986							Hole Diameter: 2ft	Total Depth: 4ft					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor for chlorides is included.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
Dry	<156	36.3	Y	PH04	0.5	0	SM	(0-1') SAND. Brown. Fine. Uniform with stones. Staining. Strong odor.					
Dry	<156	90.7	N	PH04	1	1		(@1') No staining.					
Dry	<156	16.5	N		2	2		(1-4') CALICHE. Light Brown to light grey. Mostly fine with small stones. No staining. Weak odor.					
Dry	<156	14.8	N		3	3	CCHE						
Dry	<156	4.1	N	PH04	4	4							
Total Depth @ 4 feet bgs													
													

 ENSOLUM							Sample Name: PH05	Date: 9-25-2025	
							Site Name: JRU DI 8 Substation (Illegal Dump)		
							Incident Number: nAPP2524549272		
							Job Number: 03C1558733		
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Evan Roe	Method: Backhoe	
Coordinates: 32.341332, -103.855405							Hole Diameter: 2ft	Total Depth: 5ft	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor for chlorides is included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
Dry	<156	198.1	N	PH05	0.5	0	SM	(0-2') SAND. Brown. Fine. Uniform. No staining. Strong odor.	
Dry	<156	50.2	N	PH05	1	1			
Dry	<156	22.2	N	PH05	2	2			(2-3') SAND. Brown. Fine. Uniform with stones. No staining. Mild odor.
Dry	<156	18.1	N	PH05	3	3			(3-5') SAND. Brown. Fine. Uniform with stones. No staining. Weak odor.
Dry	<156	6.1	N	PH05	4	4			
Dry	<156	4.9	N	PH05	5	5			
Total Depth @ 5 feet bgs									





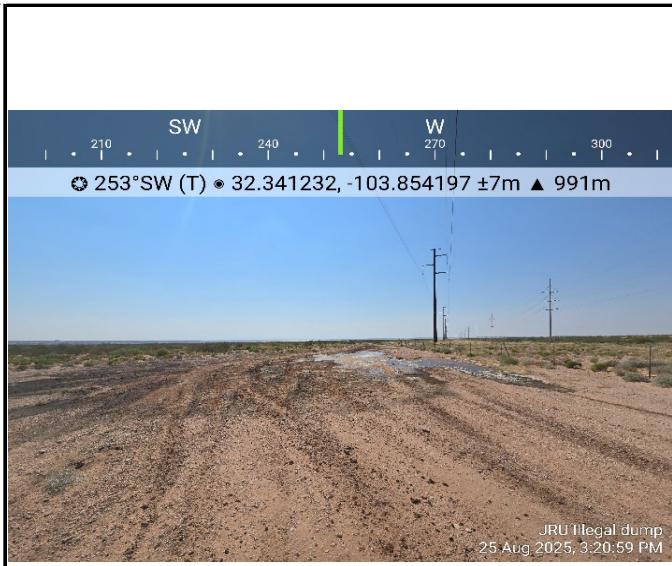
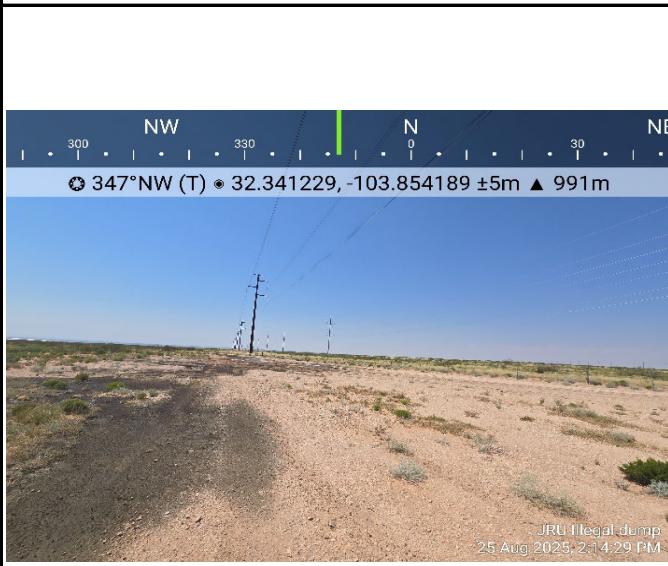
APPENDIX D

Photographic Log



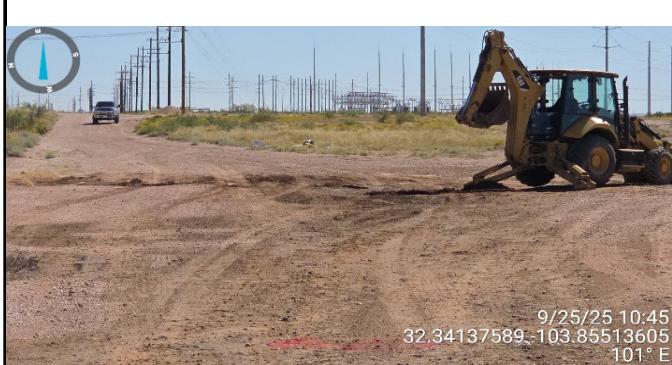
Photographic Log

XTO Energy, Inc
 JRU DI 8 Substation (Illegal Dump)
 nAPP2524549272



Photograph: 1 Date: 8/25/2025
 Description: Initial release staining
 View: North

Photograph: 2 Date: 8/25/2025
 Description: Initial release staining and pooling
 View: West



Photograph: 3 Date: 9/25/2025
 Description: Delineation activities; near PH02
 View: North

Photograph: 4 Date: 9/25/2025
 Description: Delineation activities; near PH04
 View: East



APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation



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

September 29, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JRU DI 8 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 09/26/25 11:09.

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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: PH04 0.5' (H256041-01)

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	09/26/2025	ND	1.92	95.9	2.00	0.925		
Toluene*	<0.050	0.050	09/26/2025	ND	1.89	94.6	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.84	92.1	2.00	1.65	GC-NC	
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.39	89.9	6.00	1.62		
Total BTEX	<0.300	0.300	09/26/2025	ND					GC-NC	

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 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	32.0	16.0	09/26/2025	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	09/27/2025	ND	194	96.8	200	1.32		
DRO >C10-C28*	413	10.0	09/27/2025	ND	204	102	200	5.34		
EXT DRO >C28-C36	78.7	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 95.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 98.4 % 39.9-141

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: PH04 1' (H256041-02)

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	09/26/2025	ND	1.92	95.9	2.00	0.925		
Toluene*	<0.050	0.050	09/26/2025	ND	1.89	94.6	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.84	92.1	2.00	1.65		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.39	89.9	6.00	1.62		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 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	48.0	16.0	09/26/2025	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	09/27/2025	ND	194	96.8	200	1.32		
DRO >C10-C28*	337	10.0	09/27/2025	ND	204	102	200	5.34		
EXT DRO >C28-C36	59.1	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 95.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 96.5 % 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:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: PH04 4' (H256041-03)

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	09/26/2025	ND	1.92	95.9	2.00	0.925		
Toluene*	<0.050	0.050	09/26/2025	ND	1.89	94.6	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.84	92.1	2.00	1.65		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.39	89.9	6.00	1.62		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 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	32.0	16.0	09/26/2025	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	09/26/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND						

Surrogate: 1-Chlorooctane 85.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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 that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Relinquished By:		Received By:	
Date: 09/26/23		All Results are emailed. Please provide Email address:	
Time: 2:46		Tilliard@ensolum.com, KThomason@ensolum.com Beeill@ensolum.com, TMorrissey@ensolum.com	
Relinquished By:		Received By:	
T. Morrissey		T. Morrissey	
Delivered By: (Circle One)		Time: 11:09	
Delivered By: (Circle One)		Observed Temp. °C 3.83	
Sampler - UPS - Bus - Other: FORM-006 R 3.6 02/12/25		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>	
		CHECKED BY: (Initials) KP	
		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> 24h <input checked="" type="checkbox"/>	
		GCFM: 48605000	
		Bacteria (only) Sample Condition	
		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C	
		Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
		Correlation Factor +0.3°C	
		No <input type="checkbox"/> No	
		Corrected Temp. °C	

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



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

September 29, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JRU DI 8 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 09/26/25 11:09.

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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SS 11 SURFACE (H256042-01)

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	09/26/2025	ND	1.92	95.9	2.00	0.925	
Toluene*		<0.050	0.050	09/26/2025	ND	1.89	94.6	2.00	1.22	
Ethylbenzene*		<0.050	0.050	09/26/2025	ND	1.84	92.1	2.00	1.65	
Total Xylenes*		<0.150	0.150	09/26/2025	ND	5.39	89.9	6.00	1.62	
Total BTEX		<0.300	0.300	09/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 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	09/26/2025	ND	416	104	400	3.92	

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	09/26/2025	ND	193	96.4	200	12.7	
DRO >C10-C28*		<10.0	10.0	09/26/2025	ND	211	105	200	2.78	
EXT DRO >C28-C36		<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 91.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 91.1 % 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:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: SS 12 SURFACE (H256042-02)

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	09/26/2025	ND	1.92	95.9	2.00	0.925		
Toluene*	<0.050	0.050	09/26/2025	ND	1.89	94.6	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.84	92.1	2.00	1.65		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.39	89.9	6.00	1.62		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 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	09/26/2025	ND	416	104	400	3.92		

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	09/26/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND						

Surrogate: 1-Chlorooctane 93.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 92.2 % 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:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: SS 13 SURFACE (H256042-03)

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	09/26/2025	ND	1.92	95.9	2.00	0.925		
Toluene*	<0.050	0.050	09/26/2025	ND	1.89	94.6	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.84	92.1	2.00	1.65		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.39	89.9	6.00	1.62		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 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	09/26/2025	ND	416	104	400	3.92		

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	09/26/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND						

Surrogate: 1-Chlorooctane 88.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.8 % 39.9-141

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

Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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

Cardinal Laboratories

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A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Labsatories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST	
Project Manager: Tracy Hillard	P.O. #:	Address: 601 N Marienfeld Street, Suite 400	Company: XTO Energy, Inc	City: Midland	State: TX Zip: 79701
Phone #: 575-937-3906	Fax #:	Project #: 03C1558733	Project Owner: XTO	City: Carlsbad	State: NM Zip: 88220
Project Name: JRU DI 8 Illegal Dump	-SPILLS	Project Location: 32.3413056, -103.8543611	Fax #:	Phone #:	
Sampler Name: Evan Roe	FOR LAB USE ONLY				
Lab I.D. 1 2 3	Sample I.D. SS 11 SS 12 SS 13	Depth (feet) (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL	MATRIX		PRESERV. SAMPLING
			DATE	TIME	
			09/25/2025	1340	
			09/25/2025	1341	
TPH 8015 M/D					
BTEX 8021B					
Chloride SM4500					
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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.					
Relinquished By: Tracy Hillard	Date: 09/12/2025 Time: 7:46	Received By: Tracy Hillard	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: THillard@ensolum.com, KThomason@ensolum.com REMARKS: Incident Number: nAPP2524549272 Cost Center: 2108421001 GCFM: 48605000 Turnaround Time: Standard <input type="checkbox"/> RUSH <input checked="" type="checkbox"/> 24h Thermometer ID #140 Correction Factor +0.3°C		
Delivered By: (Circle One) Deliverer - UPS - Bus - Other: Sampler - UPS - Bus - Other: FDR-006 R 3.6 02/12/25	Observed Temp. °C 38 Corrected Temp. °C 41	Sample Condition Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: Initials RD	Bacteria (only) Sample Condition Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Observed Temp. °C Corrected Temp. °C	

Page 6 of 6

Received by OCD: 11/24/2025 11:40:19 AM

Sampler - UPS - Bus - Other:
FORM-006 R 3.6 02/12/25

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 the client for the 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 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, agents, or employees, resulting out of or related to the performance of services furnished by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

† Cardinal cannot accept verbal changes. Please email changes to celej.keene@cardinallabsnm.com



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

September 29, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JRU DI 8 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 09/26/25 11:09.

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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: PH05 0.5' (H256043-01)

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	09/26/2025	ND	1.92	95.9	2.00	0.925		
Toluene*	<0.050	0.050	09/26/2025	ND	1.89	94.6	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.84	92.1	2.00	1.65		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.39	89.9	6.00	1.62		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	09/26/2025	ND	416	104	400	3.92		

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	09/26/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	140	10.0	09/26/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	20.7	10.0	09/26/2025	ND						

Surrogate: 1-Chlorooctane 91.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 98.2 % 39.9-141

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:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: PH05 2' (H256043-02)

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	09/26/2025	ND	1.92	95.9	2.00	0.925		
Toluene*	<0.050	0.050	09/26/2025	ND	1.89	94.6	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.84	92.1	2.00	1.65		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.39	89.9	6.00	1.62		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 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	09/26/2025	ND	416	104	400	3.92		

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	09/26/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND						

Surrogate: 1-Chlorooctane 91.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 93.4 % 39.9-141

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: PH05 4' (H256043-03)

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	09/26/2025	ND	1.92	95.9	2.00	0.925		
Toluene*	<0.050	0.050	09/26/2025	ND	1.89	94.6	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.84	92.1	2.00	1.65		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.39	89.9	6.00	1.62		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.7 % 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	09/26/2025	ND	416	104	400	3.92		

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	09/26/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND						

Surrogate: 1-Chlorooctane 87.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.4 % 39.9-141

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: PH05 5' (H256043-04)

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	09/27/2025	ND	1.92	95.9	2.00	0.925		
Toluene*	<0.050	0.050	09/27/2025	ND	1.89	94.6	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/27/2025	ND	1.84	92.1	2.00	1.65		
Total Xylenes*	<0.150	0.150	09/27/2025	ND	5.39	89.9	6.00	1.62		
Total BTEX	<0.300	0.300	09/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 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	09/26/2025	ND	416	104	400	3.92		

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	09/26/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND						

Surrogate: 1-Chlorooctane 80.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.1 % 39.9-141

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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 that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Received by OCD: 11/24/2025 11:40:19 AM

Page 7 of 7

Released to Imaging: 11/24/2025 4:31:15 PM



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

September 29, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JRU DI 8 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 09/26/25 11:09.

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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SS 01 SURFACE (H256044-01)

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	09/27/2025	ND	1.92	95.9	2.00	0.925	
Toluene*		<0.050	0.050	09/27/2025	ND	1.89	94.6	2.00	1.22	
Ethylbenzene*		<0.050	0.050	09/27/2025	ND	1.84	92.1	2.00	1.65	
Total Xylenes*		<0.150	0.150	09/27/2025	ND	5.39	89.9	6.00	1.62	
Total BTEX		<0.300	0.300	09/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 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	09/26/2025	ND	416	104	400	3.92	

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	09/26/2025	ND	193	96.4	200	12.7	
DRO >C10-C28*		<10.0	10.0	09/26/2025	ND	211	105	200	2.78	
EXT DRO >C28-C36		<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 96.1 % 39.9-141

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:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: SS 02 SURFACE (H256044-02)

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	09/27/2025	ND	1.92	95.9	2.00	0.925		
Toluene*	<0.050	0.050	09/27/2025	ND	1.89	94.6	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/27/2025	ND	1.84	92.1	2.00	1.65		
Total Xylenes*	<0.150	0.150	09/27/2025	ND	5.39	89.9	6.00	1.62		
Total BTEX	<0.300	0.300	09/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 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	09/26/2025	ND	416	104	400	3.92		

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	09/26/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND						

Surrogate: 1-Chlorooctane 88.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.0 % 39.9-141

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:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SS 03 SURFACE (H256044-03)

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	09/26/2025	ND	1.92	96.2	2.00	4.31	
Toluene*		<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04	
Ethylbenzene*		<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18	
Total Xylenes*		<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41	
Total BTEX		<0.300	0.300	09/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	09/26/2025	ND	416	104	400	3.92	

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	09/27/2025	ND	193	96.4	200	12.7	
DRO >C10-C28*		<10.0	10.0	09/27/2025	ND	211	105	200	2.78	
EXT DRO >C28-C36		<10.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 93.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 95.6 % 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:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: SS 04 SURFACE (H256044-04)

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	09/26/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	48.0	16.0	09/26/2025	ND	416	104	400	3.92		

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	09/27/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	10.2	10.0	09/27/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 92.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 96.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: SS 05 SURFACE (H256044-05)

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	09/26/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	09/26/2025	ND	416	104	400	3.92		

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	09/27/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	13.8	10.0	09/27/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 91.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 93.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: SS 06 SURFACE (H256044-06)

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	09/26/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	09/26/2025	ND	416	104	400	3.92		

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	09/27/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 100 % 52.4-130

Surrogate: 1-Chlorooctadecane 104 % 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:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: SS 07 SURFACE (H256044-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	09/26/2025	ND	416	104	400	3.92		

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	09/27/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	121	10.0	09/27/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	33.6	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 89.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 93.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: SS 08 SURFACE (H256044-08)

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	09/26/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	09/26/2025	ND	416	104	400	3.92		

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	09/27/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 98.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 101 % 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:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SS 09 SURFACE (H256044-09)

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	09/26/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	48.0	16.0	09/26/2025	ND	416	104	400	3.92		

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	09/27/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 91.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 93.8 % 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:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SS 10 SURFACE (H256044-10)

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	09/26/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	09/26/2025	ND	416	104	400	3.92		

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	09/27/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 88.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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 that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

September 29, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JRU DI 8 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 09/26/25 11:09.

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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: PH01 0.5' (H256045-01)

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	09/26/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	2880	16.0	09/26/2025	ND	416	104	400	3.92		

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	09/27/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 93.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 95.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: PH01 1' (H256045-02)

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	09/26/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	09/26/2025	ND	416	104	400	3.92		

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	09/27/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 92.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 95.0 % 39.9-141

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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: PH02 0.5' (H256045-03)

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	09/27/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/27/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/27/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/27/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/27/2025	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	1140	16.0	09/26/2025	ND	416	104	400	3.92		

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	09/27/2025	ND	179	89.3	200	0.815		
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	184	92.1	200	0.729		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 82.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.9 % 39.9-141

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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: PH02 1' (H256045-04)

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	09/27/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/27/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/27/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/27/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	48.0	16.0	09/26/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/27/2025	ND	179	89.3	200	0.815		
DRO >C10-C28*	17.9	10.0	09/27/2025	ND	184	92.1	200	0.729		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 78.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.8 % 39.9-141

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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: PH03 0.5' (H256045-05)

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	09/27/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/27/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/27/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/27/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	2000	16.0	09/26/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/27/2025	ND	179	89.3	200	0.815		
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	184	92.1	200	0.729		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 82.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 81.4 % 39.9-141

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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 09/26/2025 Sampling Date: 09/25/2025
 Reported: 09/29/2025 Sampling Type: Soil
 Project Name: JRU DI 8 ILLEGAL DUMP Sampling Condition: Cool & Intact
 Project Number: 03C1558733 Sample Received By: Alyssa Parras
 Project Location: XTO 32.3413056-103.8543611

Sample ID: PH03 1' (H256045-06)

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	09/27/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/27/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/27/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/27/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	96.0	16.0	09/26/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/27/2025	ND	179	89.3	200	0.815		
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	184	92.1	200	0.729		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 81.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.6 % 39.9-141

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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 that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



APPENDIX F

Spill Volume Calculation

Location:	JRU Illegal Dump	
Spill Date:	8/25/2025	
Incident #:	nAPP2524549272	
Area 1		
Approximate Area =	9784	sq. ft.
Average Saturation (or depth) of spill =	0.75	inches
Average Porosity Factor =	0.20	
VOLUME OF LEAK		
Total Crude Oil =	52.00	bbls
Total Produced Water =		bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	52.00	bbls
Total Produced Water =		bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	30.00	bbls
Total Produced Water =		bbls

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 501973

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 501973
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2524549272
Incident Name	NAPP2524549272 JRU DI 8 SUBSTATION (ILLEGAL DUMP) @ 0
Incident Type	Release Other
Incident Status	Initial C-141 Received

Location of Release Source

Please answer all the questions in this group.

Site Name	JRU DI 8 Substation (Illegal Dump)
Date Release Discovered	08/25/2025
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Vandalism Truck Crude Oil Released: 52 BBL Recovered: 30 BBL Lost: 22 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 501973

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 501973
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
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: Ashley McAfee Email: ashley.a.mcafee@exxonmobil.com Date: 09/02/2025
--	--

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 501973

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 501973
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Site Characterization

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

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

Remediation Plan

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

Requesting a remediation plan approval with this submission	No
<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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State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 501973

CONDITIONS

Operator:	OGRID: 5380
XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	Action Number: 501973
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	9/3/2025

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QUESTIONS

Action 528927

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 528927
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2524549272
Incident Name	NAPP2524549272 JRU DI 8 SUBSTATION (ILLEGAL DUMP) @ L-02-23S-30E
Incident Type	Release Other
Incident Status	Remediation Plan Received

Location of Release Source*Please answer all the questions in this group.*

Site Name	JRU DI 8 SUBSTATION (ILLEGAL DUMP)
Date Release Discovered	08/25/2025
Surface Owner	State

Incident Details*Please answer all the questions in this group.*

Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Cause: Vandalism Truck Crude Oil Released: 52 BBL Recovered: 30 BBL Lost: 22 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 528927

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 528927
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
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: 11/24/2025
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QUESTIONS, Page 3

Action 528927

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 528927
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
<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)	2880
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	492
GRO+DRO (EPA SW-846 Method 8015M)	413
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	09/25/2025
On what date will (or did) the final sampling or liner inspection occur	02/28/2026
On what date will (or was) the remediation complete(d)	02/28/2026
What is the estimated surface area (in square feet) that will be reclaimed	9785
What is the estimated volume (in cubic yards) that will be reclaimed	1500
What is the estimated surface area (in square feet) that will be remediated	9785
What is the estimated volume (in cubic yards) that will be remediated	1500

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 528927

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 528927
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	<i>Not answered.</i>
OR is the off-site disposal site, to be used, out-of-state	<i>Not answered.</i>
OR is the off-site disposal site, to be used, an NMED facility	<i>Not answered.</i>
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>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 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: 11/24/2025
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 528927

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380 Action Number: 528927 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
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QUESTIONS

Deferral Requests Only

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	No
--	----

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QUESTIONS, Page 6

Action 528927

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 528927
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	528094
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/26/2025
What was the (estimated) number of samples that were to be gathered	50
What was the sampling surface area in square feet	10000

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 528927

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 528927
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved. A remediation closure report is due to the OCD by 2/23/26.	11/24/2025