



April 17, 2025

**New Mexico Oil Conservation Division**

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

**Re: Closure Request  
Avalon UT 657  
Incident Number nAPP2420136803  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Closure Request* to document excavation and soil sampling activities performed at the Avalon UT 657 (Site). The purpose of the excavation and soil sampling activities, conducted in accordance with an approved Remediation Work Plan (*Work Plan*), was to address impacted soil from a release of crude oil and produced water at the Site. XTO is submitting this *Closure Request*, describing excavation activities that have occurred and requesting no further remediation for Incident Number nAPP2420136803.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit B, Section 31, Township 20 South, Range 28 East, in Eddy County, New Mexico (32.5346°, -104.21384°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On June 28, 2024, corrosion of a flow line resulted in the release of 11 barrels (bbls) of produced water and 5 bbls of crude oil into a pasture area. No fluids were recovered. XTO submitted a Notification of Release (NOR) and Initial C-141 Application (C-141) on July 19, 2024. The release was assigned Incident Number nAPP2420136803.

Ensolum conducted Site assessment and delineation activities and presented the results in a *Work Plan*. The *Work Plan* was submitted on September 26, 2024, and approved by the NMOCD on October 24, 2024. The *Work Plan* proposed excavation of impacted soil identified during delineation activities. The approved *Work Plan* proposed excavation of an estimated 560 cubic yards of impacted soil in a 2,140 square foot area.

## **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

As documented in the approved *Work Plan*, 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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg

XTO Energy, Inc.  
Closure Request  
Avalon UT 657

- Total TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

## EXCAVATION AND SOIL SAMPLING ACTIVITIES

From January 14 to January 28, 2025, Ensolum personnel were onsite to oversee excavation of impacted soil according to the approved *Work Plan*. Excavation activities were performed by utilizing heavy equipment. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Once field screening indicated impacted soil was adequately removed, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation extent. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS12 were collected from the floor of the excavation at depths ranging from 2.5 feet below ground surface (bgs) to 7 feet bgs. Confirmation soil samples SW01 through SW07 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 5 feet bgs. Confirmation soil sample SW08 was collected from the sidewall of the excavation at depths ranging from 4 feet bgs to 7 feet bgs. The confirmation soil sample locations were mapped utilizing a handheld global positioning system (GPS) unit and are depicted on Figure 1. Photographic documentation of the excavation activities and the final excavation extent is provided in Appendix A.

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-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

The final excavation extent measured approximately 2,330 square feet. A total of approximately 460 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and disposed of at R360 Landfill in Hobbs, New Mexico. Disposal manifests are included in Appendix B. The final excavation extent was backfilled with material purchased locally and recontoured to match pre-existing Site conditions. One representative 5-point composite sample (BF01) was collected from the topsoil backfill material on February 26, 2025. The backfill soil sample was transported under strict chain-of-custody procedures to Cardinal.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all confirmation soil samples collected indicated COC concentrations were compliant with the Site Closure Criteria and reclamation requirements where applicable. Laboratory analytical results for the backfill soil sample BF01 confirmed compliance with reclamation requirement standards. Laboratory analytical results are summarized in Table 1 and all complete laboratory analytical reports are included in Appendix C.

XTO Energy, Inc.  
Closure Request  
Avalon UT 657

## RECLAMATION PLAN

The Site will be seeded with BLM seed mix #1 for loamy sites at the rate specified in pounds of pure live seed (PLS) per acre.

Species/Cultivar	PLS/Acre
Plains lovegrass ( <i>Eragrostis intermedia</i> )	0.5
Sands dropseed ( <i>Sporobolus cryptandrus</i> )	1.0
Sideoats grama ( <i>Bouteloua curtipendula</i> )	5.0
Plains bristlegrass ( <i>Setaria macrostachya</i> )	2.0

The seed mix will be applied via drill seeding or broadcast seeding. If broadcast seeding is selected, the PLS/acre will be doubled and the seed will be raked in by chaining or dragging the Site. Reclamation activities will be documented via on-site monitoring and photographs will be included in a *Re-Vegetation Report*.

## CLOSURE REQUEST

Excavation activities were conducted at the Site in accordance with the approved *Work Plan* to address the June 2024 release of crude oil and produced water. The *Work Plan* is included in Appendix D for reference. Laboratory analytical results for all confirmation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with the Site Closure Criteria. Based on soil sample laboratory analytical results, no further remediation is required. The excavation was backfilled with material purchased locally and the Site recontoured to match pre-existing Site conditions.

A *Re-vegetation Report* will be submitted to the NMOCD once vegetation growth in the reclaimed pasture area has uniform vegetative cover that reflects a life-form ratio of plus or minus 50 percent (%) of pre-disturbance levels and a total percent plant cover of at least 70% of pre-disturbance levels, excluding noxious weeds, per NMAC 19.15.29.13 D.(3).

Excavation of soil has mitigated impacts at this Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2420136803.

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

XTO Energy, Inc.  
Closure Request  
Avalon UT 657

Sincerely,  
**Ensolum, LLC**



Tracy Hillard  
Project Engineer



Daniel Moir, PG (licensed in WY & TX)  
Senior Managing Geologist

cc: Ashley McAfee, XTO  
Kaylan Dirkx, XTO  
BLM

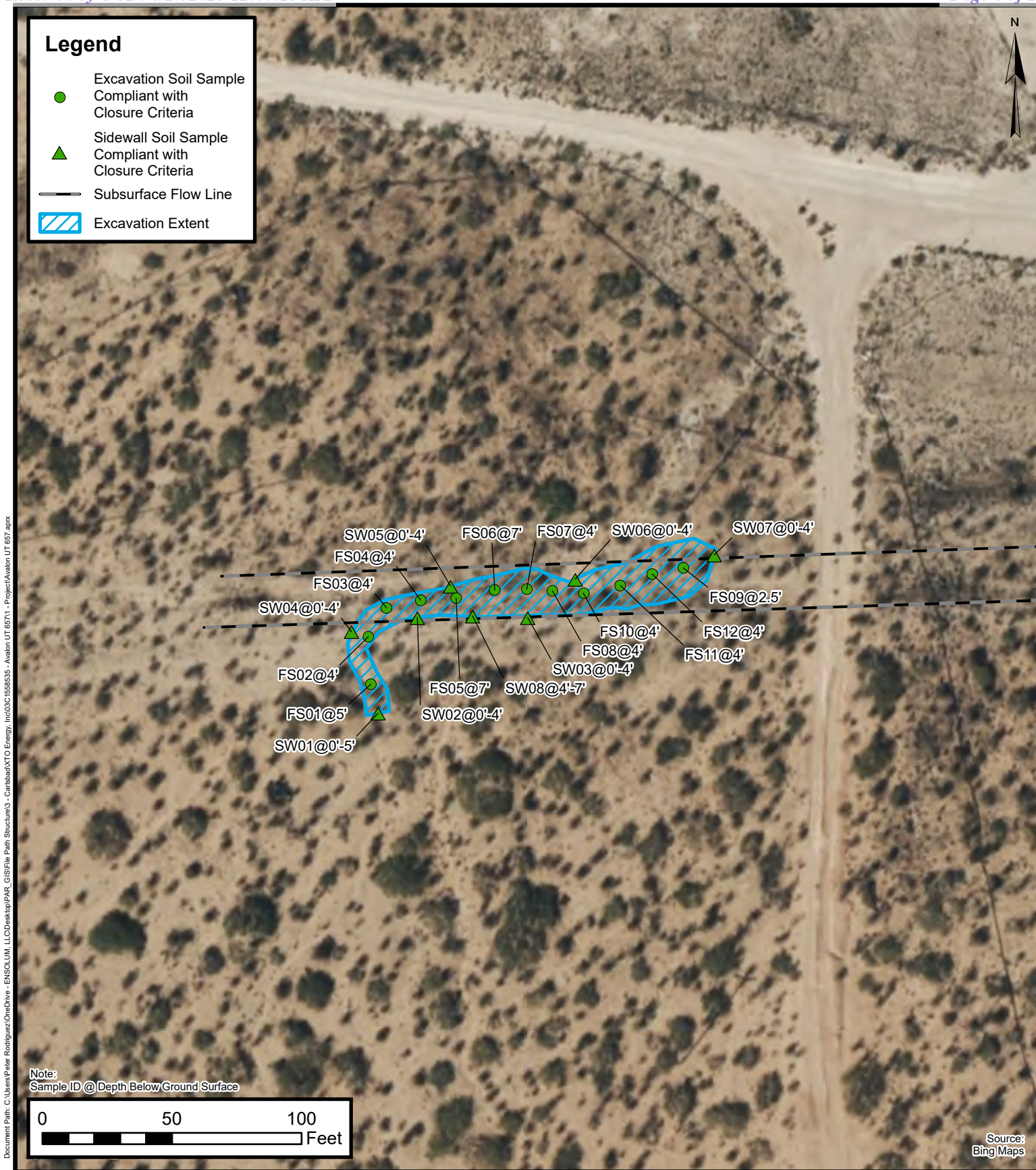
Appendices:

Figure 1	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Photographic Log
Appendix B	Disposal Manifests
Appendix C	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix D	September 26, 2024, <i>Remediation Work Plan</i>





FIGURES



## Excavation Soil Sample Locations

XTO Energy, Inc

Avalon UT 657

Incident Number: nAPP2420136803

Unit B, Sec 31, T20S, R28E

Eddy County, New Mexico

FIGURE

1



TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Avalon UT 657  
 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	1,000	2,500	20,000
Delineation Soil Samples										
BH01	09/20/2024	0-5	<0.050	9.92	575	12,700	2,420	13,275	15,695	4,240
BH01A	09/20/2024	1	<0.200	33.5	726	8,970	1,670	9,696	11,366	8,260
BH02	09/20/2024	0-5	<0.050	10.2	648	13,400	2,670	14,018	16,688	3,000
BH02A	09/20/2024	5	<0.050	3.56	162	1,760	310	1,922	2,232	6,720
BH03	09/20/2024	0-5	<0.050	31.0	1,970	21,500	3,750	23,470	27,220	48.0
BH03A	09/20/2024	5	<0.050	1.38	60.9	1,250	206	1,311	1,517	80.0
BH03B	09/20/2024	7	<0.050	<0.300	14.2	490	89.4	504	594	96.0
Confirmation Soil Samples										
FS01	01/15/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS02	01/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS03	01/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS04	01/22/2025	4	<0.050	<0.300	<10.0	24.1	<10.0	24.1	24.1	2,320
FS05	01/28/2025	7	<0.050	<0.300	<10.0	39.3	<10.0	39.3	39.3	960
FS06	01/28/2025	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,040
FS07	01/27/2025	4	<0.050	0.365	15.1	260	47.4	275	323	864
FS08	01/27/2025	4	<0.050	<0.300	<10.0	381	74.3	381	455	896
FS09	01/27/2025	2.5	<0.050	<0.300	<10.0	74.6	<10.0	74.6	74.6	96.0
FS10	01/24/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
FS11	01/27/2025	4	<0.050	<0.300	<10.0	27.5	<10.0	27.5	27.5	1,340
FS12	01/27/2025	4	<0.050	<0.300	<10.0	51.3	<10.0	51.3	51.3	256
SW01	01/15/2025	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW02	01/24/2025	0-4	<0.050	<0.300	<10.0	21.0	<10.0	21.0	21.0	144
SW03	01/24/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW04	01/22/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW05	01/22/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW06	01/28/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW07	01/28/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW08	01/28/2025	4-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368



TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
Avalon UT 657  
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	1,000	2,500	20,000
Backfill Soil Sample										
BF01	02/26/2025	0.5	<0.050	<0.300	<10.0	10.5	<10.0	10.5	10.5	64.0

## 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

### Photographic Log

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**Photographic Log**

XTO Energy, Inc

Avalon UT 657

nAPP2420136803



Photograph: 1                      Date: 1/21/2025  
Description: Excavation activities  
View: South



Photograph: 2                      Date: 1/24/2025  
Description: Excavation activities  
View: Southwest



Photograph: 3                      Date: 1/28/2025  
Description: Final excavation extent  
View: Southwest



Photograph: 4                      Date: 2/21/2025  
Description: Backfilled excavation  
View: Southwest





Appendix B

Disposal Manifests

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## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT) \*REQUIRED INFORMATION\*

Name \_\_\_\_\_Phone No. \_\_\_\_\_

## GENERATOR

NO. **HW-724179**

Generator Manifest # \_\_\_\_\_

Generator Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin \_\_\_\_\_

Lease/Well \_\_\_\_\_

Name & No. \_\_\_\_\_

County \_\_\_\_\_

API No. \_\_\_\_\_

Rig Name & No. \_\_\_\_\_

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS			OTHER EXEMPT E&P WASTE STREAMS				
Oil Based Cuttings	_____	Washout Water (Non-Injectable) _____			DAILY DUMP				
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable) _____							
Water Based Cuttings	_____	Produced Water (Non-Injectable) _____							
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable) _____							
Tank Bottoms	_____	INTERNAL USE ONLY			TOP SOIL & CALICHE SALES				
E&P Contaminated Soil	_____	Truck Washout (exempt waste)			YES	NO	QUANTITY	TOP SOIL	CALICHE
Gas Plant Waste	_____								

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)
- ☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name \_\_\_\_\_

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Driver's Name \_\_\_\_\_

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Truck No. \_\_\_\_\_

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_Name/No. \_\_\_\_\_

Site Name/ Halfway Facility / NM1-006

Permit No. \_\_\_\_\_

Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading &gt; 50 micro roentgens? (Circle One) YES NO

## TANK BOTTOMS

	Feet	Inches
1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W/BBLS Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Released to Imaging: 5/16/2025 3:01:09 PM

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name \_\_\_\_\_

Phone No. \_\_\_\_\_

## GENERATOR

NO. **HW-724178**

Generator Manifest # \_\_\_\_\_

Generator Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin \_\_\_\_\_

Lease/Well \_\_\_\_\_

Name &amp; No. \_\_\_\_\_

County \_\_\_\_\_

API No. \_\_\_\_\_

Rig Name &amp; No. \_\_\_\_\_

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____		
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____				
E&P Contaminated Soil	_____	INTERNAL USE ONLY	_____	TOP SOIL & CALICHE SALES	_____
Gas Plant Waste	_____	Truck Washout (exempt waste)	YES _____ NO _____	QUANTITY	TOP SOIL _____ CALICHE _____

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

## TRANSPORTER

Transporter's Name \_\_\_\_\_

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Driver's Name \_\_\_\_\_

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Truck No. \_\_\_\_\_

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE \_\_\_\_\_

DRIVER'S SIGNATURE \_\_\_\_\_

DELIVERY DATE \_\_\_\_\_

DRIVER'S SIGNATURE \_\_\_\_\_

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. \_\_\_\_\_

Site Name/ Permit No. **Halfway Facility / NM1-006** Phone No. **575-392-6368**  
Address **6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220**

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading &gt; 50 micro roentgens? (Circle One) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

## TANK BOTTOMS

	Feet	Inches
1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W/BBLs Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? \_\_\_\_\_

NAME (PRINT) \_\_\_\_\_

DATE \_\_\_\_\_

TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) \*REQUIRED INFORMATION\*

Company Man Contact Information

Name Kent Retz

Phone No. \_\_\_\_\_

Generator Manifest # XTO

Generator Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

## GENERATOR

NO. HW- 717081

Location of Origin Avalon #28

Lease/Well Name & No. Unit #657

County 3361588535

API No. 30-015-24473

Rig Name & No. 9420136803

AFE/PO No. 1136181001

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT E&P WASTE STREAMS	
		Washout Water (Non-Injectable)			
Oil Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Oil Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Water Based Muds	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Water Based Cuttings	_____				
Produced Formation Solids	_____				
Tank Bottoms	_____				
E&P Contaminated Soil	<u>70</u>				
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount  
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS 90 E - EACH

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- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)
- ☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

Transporter's Name Sen Tex Mex Trucking

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

## TRANSPORTER

Driver's Name Peter

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Truck No. 102

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 28

Site Name/ Permit No. Halfway Facility / NM1-006

Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One) YES ☒ NO ☐

PASS THE PAINT FILTER TEST? (Circle One) YES ☒ NO ☐

If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☒

## TANK BOTTOMS

	Feet	Inches
1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W/BBLs Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one): ACCEPTED ☒ DENIED ☐ If denied, why? \_\_\_\_\_

NAME (PRINT) M.S. L. CO. DATE 1/21/25 TITLE Adm SIGNATURE \_\_\_\_\_





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name Kent Rotz

Phone No. \_\_\_\_\_

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

## GENERATOR

Generator Manifest # X70Generator Name Avalon UT 657Address 03515585352420136803City, State, Zip 1136181001

Phone No. \_\_\_\_\_

Location of Origin

Lease/Well

Name & No. Avalon DelawareCounty Unit #657API No. 30-016-24473

Rig Name &amp; No. \_\_\_\_\_

AFE/PO No. \_\_\_\_\_

NO. HW-716776

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____		
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____		
E&P Contaminated Soil	<u>30</u>	Truck Washout (exempt waste)	YES _____ NO _____	QUANTITY	TOP SOIL CALICHE
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS 30 E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name Sam Tex Mex Trucking

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Driver's Name Peter

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Truck No. 102

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 28

Site Name/

Permit No.

Address Halfway Facility / NM-0066601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (Circle One)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

YES

NO

## TANK BOTTOMS

1st Gauge	Feet	Inches
2nd Gauge		
Received		

BS&W/BBLs Received		BS&W (%)
Free Water		
Total Received		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Kent Rato

Phone No. \_\_\_\_\_

## GENERATOR

NO. **HW-722335**

Generator Manifest # \_\_\_\_\_

Location of Origin Analay DT LSTGenerator Name XTO

Lease/Well

Name & No. P.O. #030558555

Address \_\_\_\_\_

County MAR 2420136803

City, State, Zip \_\_\_\_\_

API No. 601176181001

Phone No. \_\_\_\_\_

Rig Name & No. 20-015-24473

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Muds	Washout Water (Non-Injectable) _____	
Oil Based Cuttings	Completion Fluid/Flow Back (Non-Injectable) _____	
Water Based Muds	Produced Water (Non-Injectable) _____	
Water Based Cuttings	Gathering Line Water/Waste (Non-Injectable) _____	
Produced Formation Solids		
Tank Bottoms		
E&P Contaminated Soil		
Gas Plant Waste		
	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES
	Truck Washout (exempt waste) YES NO	QUANTITY TOP SOIL CALICHE

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY

B - BARRELS

L - LIQUID

20 Y - YARDS

E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name Santa MexDriver's Name Cornelio

Address \_\_\_\_\_

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Truck No. 02

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 28Site Name/  
Permit No.**Halfway Facility / NM1-006**

Phone No.

**575-392-6368**

Address

**6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220**NORM READINGS TAKEN? (Circle One) YES NO  
PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading &gt; 50 micro roentgens? (Circle One) YES NO

## TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLs Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Kent Ratz

Phone No. \_\_\_\_\_

## GENERATOR

NO. **HW-722333**

Generator Manifest # \_\_\_\_\_

Location of Origin

Amador UT 697Generator Name XTO

Lease/Well

Name & No. Prod #03458535

Address \_\_\_\_\_

County

WPP 343071203

City, State, Zip \_\_\_\_\_

API No. 02117610101

Phone No. \_\_\_\_\_

Rig Name & No. 30-DIS-24173

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____		
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____	TOP SOIL & CALICHE SALES	_____
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES _____ NO _____	QUANTITY	TOP SOIL CALICHE
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY

B - BARRELS

L - LIQUID

20 Y - YARDS

E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name Sentex MexDriver's Name Cornelio

Address \_\_\_\_\_

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Truck No. 03

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 28

Site Name/

Halfway Facility / NM1-006

Permit No.

Phone No.

575-392-6368

Address

6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220NORM READINGS TAKEN? (Circle One) YES ☒ NO ☐  
PASS THE PAINT FILTER TEST? (Circle One) YES ☒ NO ☐If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☒

## TANK BOTTOMS

	Feet	Inches
1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W/BBLs Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name East Rite

Phone No. \_\_\_\_\_

## GENERATOR

NO. **HW-722332**

Generator Manifest # \_\_\_\_\_

Location of Origin

Lease/Well

Name &amp; No.

County

API No.

Rig Name &amp; No.

AFE/PO No.

Generator Name

Address

City, State, Zip

Phone No.

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____		
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____	TOP SOIL & CALICHE SALES	_____
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES _____ NO _____	QUANTITY	TOP SOIL CALICHE
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name

Address

Phone No.

Transporter Ticket #

Driver's Name

Print Name

Phone No.

Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. \_\_\_\_\_

Site Name/  
Permit No.**Halfway Facility / NM1-006**

Address

**6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220**

Phone No.

**575-392-6368**NORM READINGS TAKEN? (Circle One) YES NO  
PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading &gt; 50 micro roentgens? (Circle One) YES NO

## TANK BOTTOMS

1st Gauge

Feet

Inches

2nd Gauge

Received

BS&amp;W/BBLs Received

BS&amp;W (%)

Free Water

Total Received

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT) \*REQUIRED INFORMATION\*

Name Ken + Ken

Phone No. \_\_\_\_\_

Generator Manifest # X70

Generator Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

## GENERATOR

NO. **HW-7038037**

Location of Origin Avalon

Lease/Well Name & No. UT 657

County Ford

API No. 30-013-24413

Rig Name & No. DSC 1338535

AFE/PO No. NA 19-242013/1404 - 1135/18/1001

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT E&P WASTE STREAMS	
		Washout Water (Non-Injectable)			
Oil Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Oil Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Water Based Muds	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Water Based Cuttings	_____				
Produced Formation Solids	_____				
Tank Bottoms	_____				
E&P Contaminated Soil	_____				
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount  
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCPL), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Other (Provide Description Below)
- ☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name SCM Tex Inc

Address \_\_\_\_\_

Phone No. 472-209-4210

Transporter Ticket # \_\_\_\_\_

Driver's Name Wilbert Harrell

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Truck No. \_\_\_\_\_

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 28

Site Name/ Permit No. Halfway Facility / NM1-006

Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One) YES ☒ NO ☐

PASS THE PAINT FILTER TEST? (Circle One) YES ☒ NO ☐

If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☒

## TANK BOTTOMS

	Feet	Inches
1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W/BBLs Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name Kent Retz

Phone No. \_\_\_\_\_

## GENERATOR

Generator Manifest # 810

Generator Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin

Lease/Well

Name & No. Proser 036155 8535County Incident: NAPP 2426136 803API No. 30-015-24473Rig Name & No. CG-1136181001

AFE/PO No. \_\_\_\_\_

NO. HW-708643

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	<u>Belly</u>	
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____	TOP SOIL & CALICHE SALES	_____
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	QUANTITY	TOP SOIL CALICHE
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name Semtex Mex

Address \_\_\_\_\_

Phone No. (432) 209-4230

Transporter Ticket # \_\_\_\_\_

Driver's Name

Print Name Adrian Hines

Phone No. \_\_\_\_\_

Truck No. 63

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE 11/24/25DRIVER'S SIGNATURE Adrian HinesDELIVERY DATE 11/24/25DRIVER'S SIGNATURE Adrian Hines

## TRUCK TIME STAMP

## DISPOSAL FACILITY

RECEIVING AREA 8

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. \_\_\_\_\_

Site Name/ Permit No. Halfway Facility / NM1-006  
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220Phone No. 575-392-6368NORM READINGS TAKEN? (Circle One) YES ☐ NO ☒  
PASS THE PAINT FILTER TEST? (Circle One) YES ☐ NO ☒If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☒

## TANK BOTTOMS

	Feet	Inches
1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W/BBLs Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT) Adrian HinesDATE 11/24/25TITLE ADMSIGNATURE Adrian Hines

C-138





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Keith Ratz

Phone No. \_\_\_\_\_

## GENERATOR

NO. **HW-7038009**

Generator Manifest # \_\_\_\_\_

Generator Name YTO

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin \_\_\_\_\_

Lease/Well \_\_\_\_\_

Name & No. Alvaton UT 652County Alvaton UT 652API No. 20-015-24473Rig Name & No. 136181001AFE/PO No. 136181001

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	<u>Belly Dump</u>	
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____	TOP SOIL & CALICHE SALES	_____
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES _____ NO _____	QUANTITY	TOP SOIL CALICHE
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINESNON-EXEMPT E&P Waste/Service Identification and Amount  
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 30 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

## TRANSPORTER

Transporter's Name Sam Yevlax

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Driver's Name Tobias Thuesen

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Truck No. 25

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE \_\_\_\_\_

DRIVER'S SIGNATURE \_\_\_\_\_

DELIVERY DATE \_\_\_\_\_

DRIVER'S SIGNATURE \_\_\_\_\_

## TRUCK TIME STAMP

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. 25Site Name/  
Permit No.Halfway Facility / NM1-006Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220Phone No. 575-392-6368NORM READINGS TAKEN? (Circle One) YES NOPASS THE PAINT FILTER TEST? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (Circle One) YES NO

## TANK BOTTOMS

	Feet	Inches
1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W/BBLs Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why? \_\_\_\_\_

NAME (PRINT) \_\_\_\_\_

DATE \_\_\_\_\_

TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name Kent Betz

Phone No. \_\_\_\_\_

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

## GENERATOR

NO. HW-720060

Generator Manifest # \_\_\_\_\_

Location of Origin  
Lease/Well# Avalon UT 657Generator Name XTO

Name &amp; No.

P.O. #03C1558535

Address \_\_\_\_\_

County

MAR 2420136303

City, State, Zip \_\_\_\_\_

API No.

CC: 1136181001

Phone No. \_\_\_\_\_

Rig Name &amp; No.

30-015-24473

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	<u>Belly dump</u>	
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____	TOP SOIL & CALICHE SALES	_____
E&P Contaminated Soil	<u>✓</u>	Truck Washout (exempt waste)	YES _____ NO _____	QUANTITY	TOP SOIL CALICHE
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 40 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name Sentex Mex

Driver's Name

Cornelio

Address \_\_\_\_\_

Print Name

Phone No. \_\_\_\_\_

Phone No.

Transporter Ticket # \_\_\_\_\_

Truck No.

03

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. UOSite Name/  
Permit No.Halfway Facility / NM1-006

Phone No.

575-392-6368Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (Circle One)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

YES

NO

## TANK BOTTOMS

1st Gauge	Feet	Inches
2nd Gauge		
Received		

BS&W/BBLs Received		BS&W (%)
Free Water		
Total Received		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Kent R. Ellis

Phone No. \_\_\_\_\_

## GENERATOR

NO. **HW- 722336**

Generator Manifest # \_\_\_\_\_

Generator Name HTM

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin  
Lease/Well

Name &amp; No.

County

API No.

Rig Name &amp; No.

AFE/PO No.

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings	Washout Water (Non-Injectable)	
Water Based Muds	Completion Fluid/Flow Back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	TOP SOIL & CALICHE SALES
Gas Plant Waste	YES NO	QUANTITY TOP SOIL CALICHE

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINESNON-EXEMPT E&P Waste/Service Identification and Amount  
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

Transporter's  
Name

Address

Phone No.

Transporter Ticket # \_\_\_\_\_

## TRANSPORTER

Driver's Name

Print Name

Phone No.

Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. 28Site Name/  
Permit No.**Halfway Facility / NM1-006**

Address

**6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220**

Phone No.

**575-392-6368**

NORM READINGS TAKEN? (Circle One)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (Circle One)

YES

NO

## TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

BS&amp;W/BBLS Received

Free Water

Total Received

BS&amp;W (%)

I hereby certify that the above load material has been (circle one)

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name Kent Rotz

Phone No. \_\_\_\_\_

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

## GENERATOR

NO. **HW-7037328**Generator Manifest # X70Generator Name \_\_\_\_\_  
Address \_\_\_\_\_City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_Location of Origin  
Lease/Well Name & No. Avalon UT 657  
County Project: 0201548525  
API No. API: 30-015-34473  
Rig Name & No. Incident: nAPP343013680?  
AFE/PO No. CC-436481001

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____		
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____	TOP SOIL & CALICHE SALES	_____
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES _____ NO _____	QUANTITY	TOP SOIL CALICHE
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS 20 E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)
- ☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name Sentex Mex  
Address \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Transporter Ticket # \_\_\_\_\_Driver's Name Cathy Roumer  
Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Truck No. 29

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. 28Site Name/Permit No. Halfway Facility / NM1-006  
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220Phone No. 575-392-6368NORM READINGS TAKEN? (Circle One) YES \_\_\_\_\_ NO \_\_\_\_\_  
PASS THE PAINT FILTER TEST? (Circle One) YES \_\_\_\_\_ NO \_\_\_\_\_

If YES, was reading &gt; 50 micro roentgens? (Circle One) YES \_\_\_\_\_ NO \_\_\_\_\_

## TANK BOTTOMS

1st Gauge	Feet	Inches	BS&W/BBLs Received	BS&W (%)
2nd Gauge			Free Water	
Received			Total Received	

I hereby certify that the above load material has been (circle one): ACCEPTED \_\_\_\_\_ DENIED \_\_\_\_\_ If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Kent Rotz

Phone No. \_\_\_\_\_

Generator Manifest # X70

## GENERATOR

NO. HW-7037329

Generator Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin

Lease/Well

Name & No. Avalon UT 657County GarfieldAPI No. 30-015-20042Rig Name & No. Incident # AP09490126803AFE/PO No. CC-1126181001

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds \_\_\_\_\_

Oil Based Cuttings \_\_\_\_\_

Water Based Muds \_\_\_\_\_

Water Based Cuttings \_\_\_\_\_

Produced Formation Solids \_\_\_\_\_

Tank Bottoms \_\_\_\_\_

E&amp;P Contaminated Soil \_\_\_\_\_

Gas Plant Waste \_\_\_\_\_

## NON-INJECTABLE WATERS

Washout Water (Non-Injectable) \_\_\_\_\_

Completion Fluid/Flow Back (Non-Injectable) \_\_\_\_\_

Produced Water (Non-Injectable) \_\_\_\_\_

Gathering Line Water/Waste (Non-Injectable) \_\_\_\_\_

## INTERNAL USE ONLY

Truck Washout (exempt waste) \_\_\_\_\_

YES \_\_\_\_\_

NO NO

QUANTITY \_\_\_\_\_

TOP SOIL \_\_\_\_\_

CALICHE \_\_\_\_\_

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY

B - BARRELS \_\_\_\_\_

L - LIQUID \_\_\_\_\_

Y - YARDS 30

E - EACH \_\_\_\_\_

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

Transporter's Name

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

## TRANSPORTER

Driver's Name

Print Name Colby Reiner

Phone No. \_\_\_\_\_

Truck No. 39

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE \_\_\_\_\_

DRIVER'S SIGNATURE \_\_\_\_\_

DELIVERY DATE 1-28-25DRIVER'S SIGNATURE Colby Reiner

## TRUCK TIME STAMP

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. 74

Site Name/Permit No.

Halfway Facility / NM1-006

Address

6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No.

575-392-6368NORM READINGS TAKEN? (Circle One) YES NO  
PASS THE PAINT FILTER TEST? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (Circle One) YES NO

## TANK BOTTOMS

Feet \_\_\_\_\_

Inches \_\_\_\_\_

1st Gauge \_\_\_\_\_

2nd Gauge \_\_\_\_\_

Received \_\_\_\_\_

BS&amp;W/BBLs Received \_\_\_\_\_

Free Water \_\_\_\_\_

Total Received \_\_\_\_\_

BS&amp;W (%) \_\_\_\_\_

I hereby certify that the above load material has been (circle one):

ACCEPTED YES

DENIED \_\_\_\_\_

If denied, why? \_\_\_\_\_

NAME (PRINT) \_\_\_\_\_

DATE \_\_\_\_\_

TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name Kent Retz

Phone No. \_\_\_\_\_

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

## GENERATOR

NO. **HW-724175**Generator Manifest # X70

Generator Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin \_\_\_\_\_

Lease/Well \_\_\_\_\_

Name & No. Avalon UT 657County Blaine Co. WYAPI No. APR 20-015-24973Rig Name & No. Incident - APP 3490126803AFE/PO No. CC-1136131001

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	<u>Belly Dump</u>	
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____	TOP SOIL & CALICHE SALES	_____
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES _____ NO _____	QUANTITY	TOP SOIL CALICHE
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS 20 E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name Semtex Mex

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Driver's Name Conny Reinher

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Truck No. 24

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 78Site Name/Permit No. Halfway Facility / NM1-006Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220Phone No. 575-392-6368NORM READINGS TAKEN? (Circle One) YES NO  
PASS THE PAINT FILTER TEST? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (Circle One) YES NO

## TANK BOTTOMS

1st Gauge	Feet _____	Inches _____	BS&W/BBLS Received	_____	BS&W (%)	_____
2nd Gauge	_____	_____	Free Water	_____		
Received	_____	_____	Total Received	_____		

I hereby certify that the above load material has been (circle one): ACCEPTED YES DENIED NO If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT) \*REQUIRED INFORMATION\*

Name Kent Reitz

Phone No. \_\_\_\_\_

## GENERATOR

NO. **HW-724176**Generator Manifest # X70

Generator Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin

Lease/Well

Name & No. Avalon UT 657County Project-135155835API No. API-20-015-90472Rig Name & No. Incident-NAIP3930126002AFE/PO No. CC-1036181001

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	<u>Belly Dump</u>	
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____	TOP SOIL & CALICHE SALES	_____
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	QUANTITY	TOP SOIL CALICHE
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS 390 E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

Transporter's Name Sen Tex Max

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

## TRANSPORTER

Driver's Name Corny Reinert

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Truck No. 39

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 28Site Name/  
Permit No.Halfway Facility / NM1-006

Phone No.

575-392-6368

Address

6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (Circle One)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

YES

NO

## TANK BOTTOMS

1st Gauge	Feet	Inches
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Kent Retz

Phone No. \_\_\_\_\_

## GENERATOR

NO. HW-724177Generator Manifest # X70

Generator Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin

Lease/Well

Name & No. Avalon UT 657County Blaine Co. WYAPI No. AP# 20-015-24472Rig Name & No. Incident # AP# 430136202AFE/PO No. CC# 434181001

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	Washout Water (Non-Injectable)	_____	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings	_____		Completion Fluid/Flow Back (Non-Injectable)	_____	
Water Based Muds	_____		Produced Water (Non-Injectable)	_____	
Water Based Cuttings	_____		Gathering Line Water/Waste (Non-Injectable)	_____	
Produced Formation Solids	_____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES		
Tank Bottoms	_____				
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES	NO	QUANTITY
Gas Plant Waste	_____				TOP SOIL
					CALICHE

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS 90 E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

Transporter's Name

Address

Phone No.

Transporter Ticket #

## TRANSPORTER

Driver's Name

Print Name

Phone No.

Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. XXSite Name/  
Permit No.Halfway Facility / NM1-006

Address

6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No.

575-392-6368NORM READINGS TAKEN? (Circle One) YES NO  
PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading &gt; 50 micro roentgens? (Circle One) YES NO

## TANK BOTTOMS

1st Gauge	Feet	Inches
2nd Gauge		
Received		

BS&W/BBLs Received		BS&W (%)
Free Water		
Total Received		

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name Kent Holt

Phone No. \_\_\_\_\_

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

## GENERATOR

NO. **HW-7038039**

Generator Manifest # \_\_\_\_\_

Generator Name XTD

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin  
Lease/Well

Name &amp; No.

County

API No.

Rig Name &amp; No.

AFE/PO No.

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT E&P WASTE STREAMS	
		Washout Water (Non-Injectable)			
Oil Based Muds		Completion Fluid/Flow Back (Non-Injectable)			
Oil Based Cuttings		Produced Water (Non-Injectable)			
Water Based Muds		Gathering Line Water/Waste (Non-Injectable)			
Water Based Cuttings					
Produced Formation Solids					
Tank Bottoms					
E&P Contaminated Soil					
Gas Plant Waste					

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name

Address

Phone No.

Transporter Ticket #

Driver's Name

Print Name

Phone No.

Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 28Site Name/  
Permit No.Halfway Facility / NM1-006

Phone No.

575-392-6368

Address

6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220NORM READINGS TAKEN? (Circle One) YES ☐ NO ☒  
PASS THE PAINT FILTER TEST? (Circle One) YES ☐ NO ☒If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☒

## TANK BOTTOMS

Feet

Inches

1st Gauge	
2nd Gauge	
Received	

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name Robert H. H.

Phone No. \_\_\_\_\_

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

## GENERATOR

NO. **HW-7038038**Generator Manifest # XTD

Location of Origin

Lease/Well

Name &amp; No.

County

API No.

Rig Name &amp; No.

AFE/PO No.

Generator Name

Address

City, State, Zip

Phone No.

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS	
Oil Based Cuttings	Washout Water (Non-Injectable)		
Water Based Muds	Completion Fluid/Flow Back (Non-Injectable)		
Water Based Cuttings	Produced Water (Non-Injectable)		
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES	
E&P Contaminated Soil	Truck Washout (exempt waste)	YES	NO
Gas Plant Waste		QUANTITY	TOP SOIL CALICHE

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCPLP), Ignitability, Corrosivity and Reactivity

Non-Exempt Other

\*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

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☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name

Address

Phone No.

Transporter Ticket #

Driver's Name

Print Name

Phone No.

Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. \_\_\_\_\_

Site Name/

Permit No.

Address

**Halfway Facility / NM1-006****6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220**

Phone No.

**575-392-6368**NORM READINGS TAKEN? (Circle One) YES NO  
PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading &gt; 50 micro roentgens? (Circle One) YES NO

## TANK BOTTOMS

Feet

Inches

1st Gauge		
2nd Gauge		
Received		

BS&W/BBLs Received		BS&W (%)
Free Water		
Total Received		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Paul R. Rios

Phone No. \_\_\_\_\_

## GENERATOR

NO. **HW-7037521**Generator Manifest # XTO

Generator Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin XTO Aerial MT 657Lease/Well Name & No. Protect 0301558535County McKinleyAPI No. 20-015-24473Rig Name & No. NAMP 2420136023AFF/PO No. 1136181001

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	Washout Water (Non-Injectable)	_____	OTHER EXEMPT E&P WASTE STREAMS		
Oil Based Cuttings	_____		Completion Fluid/Flow Back (Non-Injectable)	_____			
Water Based Muds	_____		Produced Water (Non-Injectable)	_____			
Water Based Cuttings	_____		Gathering Line Water/Waste (Non-Injectable)	_____			
Produced Formation Solids	_____						
Tank Bottoms	_____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES				
E&P Contaminated Soil	_____						
Gas Plant Waste	_____	Truck Washout (exempt waste)	YES	NO	QUANTITY	TOP SOIL	CALICHE

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENT'S SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

## TRANSPORTER

Transporter's Name San Tex Mex

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Driver's Name Paul RiosPrint Name Paul RiosPhone No. 505-499-5357Truck No. 127-25

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE \_\_\_\_\_

DRIVER'S SIGNATURE \_\_\_\_\_

DELIVERY DATE \_\_\_\_\_

DRIVER'S SIGNATURE \_\_\_\_\_

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. \_\_\_\_\_

Site Name/

Permit No. Halfway Facility / NM1-006Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading &gt; 50 micro roentgens? (Circle One) YES NO

## TANK BOTTOMS

Feet

Inches

1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W/BBLS Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why? \_\_\_\_\_

NAME (PRINT) \_\_\_\_\_

DATE \_\_\_\_\_

TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Kenit Ruiz

Phone No. \_\_\_\_\_

## GENERATOR

NO. **HW-7039806**Generator Manifest # XTOLocation of Origin Avalon UT 857

Generator Name \_\_\_\_\_

Lease/Well \_\_\_\_\_

Address \_\_\_\_\_

Name & No. Proct 0301558535County El Dorado

City, State, Zip \_\_\_\_\_

API No. 30-045-24423

Phone No. \_\_\_\_\_

Rig Name & No. Proct 0301558535

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

	NON-INJECTABLE WATERS		OTHER EXEMPT E&P WASTE STREAMS	
	Washout Water (Non-Injectable)	Completion Fluid/Flow Back (Non-Injectable)	Produced Water (Non-Injectable)	Gathering Line Water/Waste (Non-Injectable)
Oil Based Muds	_____	_____	_____	_____
Oil Based Cuttings	_____	_____	_____	_____
Water Based Muds	_____	_____	_____	_____
Water Based Cuttings	_____	_____	_____	_____
Produced Formation Solids	_____	_____	_____	_____
Tank Bottoms	_____	_____	_____	_____
E&P Contaminated Soil	_____	_____	_____	_____
Gas Plant Waste	_____	_____	_____	_____

## INTERNAL USE ONLY

## TOP SOIL &amp; CALICHE SALES

Truck Washout (exempt waste) YES ☒ NO ☐ QUANTITY \_\_\_\_\_ TOP SOIL \_\_\_\_\_ CALICHE \_\_\_\_\_WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name San Tex MexDriver's Name Paul Curry

Address \_\_\_\_\_

Print Name Paul Curry

Phone No. \_\_\_\_\_

Phone No. 318 499 5357

Transporter Ticket # \_\_\_\_\_

Truck No. 67

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 08

Site Name/

Permit No.

Address

Halfway Facility / NM1-006

Phone No.

575-392-63686601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220NORM READINGS TAKEN? (Circle One) YES ☒ NO ☐  
PASS THE PAINT FILTER TEST? (Circle One) YES ☒ NO ☐If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☒

## TANK BOTTOMS

	Feet	Inches
1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W/BBLs Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one)

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name Karl Peter

Phone No. \_\_\_\_\_

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

## GENERATOR

NO. HW-708642Generator Manifest # 4101

Location of Origin

Lease/Well

Name & No. 03/1558535County AlbuquerqueAPI No. 30-015-29473Rig Name & No. 11361841001

AFE/PO No. \_\_\_\_\_

Generator Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	<u>Belly</u>	
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____	TOP SOIL & CALICHE SALES	_____
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	QUANTITY	TOP SOIL CALICHE
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name San Juan Mex

Address \_\_\_\_\_

Phone No. (462) 2-7 4230

Transporter Ticket # \_\_\_\_\_

Driver's Name Adrian FloresPrint Name Adrian Flores

Phone No. \_\_\_\_\_

Truck No. 63

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE 11/27/25DRIVER'S SIGNATURE [Signature]DELIVERY DATE 11/27/25DRIVER'S SIGNATURE [Signature]

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. \_\_\_\_\_

Site Name/  
Permit No.Halfway Facility / NM1-006

Address

6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No.

675-392-6368NORM READINGS TAKEN? (Circle One) YES ☐ NO ☒If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☒PASS THE PAINT FILTER TEST? (Circle One) ☒ YES ☐ NO

## TANK BOTTOMS

	Feet	Inches
1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W/BBLs Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one):

☒ ACCEPTED

DENIED

If denied, why?

NAME (PRINT) Robert D. GaitanoDATE 11/27/25TITLE OwnerSIGNATURE [Signature]

C-138





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Karl Reitz

Phone No. \_\_\_\_\_

## GENERATOR

NO. HW-700640Generator Manifest # 770Location of Origin Albuquerque, NM 87107

Generator Name \_\_\_\_\_

Lease/Well Name & No. 071558535

Address \_\_\_\_\_

County San Juan

City, State, Zip \_\_\_\_\_

API No. 20-015-2473

Phone No. \_\_\_\_\_

Rig Name & No. 13517121

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	<u>Beilly</u>	
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____	TOP SOIL & CALICHE SALES	_____
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	QUANTITY	TOP SOIL CALICHE
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINESNON-EXEMPT E&P Waste/Service Identification and Amount  
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name San Juan MexDriver's Name Adrian Reyes

Address \_\_\_\_\_

Print Name Adrian ReyesPhone No. 505-271-6230

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Truck No. 63

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE 11/27/25DRIVER'S SIGNATURE Adrian ReyesDELIVERY DATE 11/27/25DRIVER'S SIGNATURE Adrian Reyes

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. \_\_\_\_\_

Site Name/

Permit No. Halfway Facility / NM1-006Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220Phone No. 575-392-6368NORM READINGS TAKEN? (Circle One) YES ☒ NO ☐  
PASS THE PAINT FILTER TEST? (Circle One) YES ☒ NO ☐If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☒

## TANK BOTTOMS

	Feet	Inches
1st Gauge	<u>1.8</u>	<u>3</u>
2nd Gauge		
Received		

BS&W/BBLs Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one):

ACCEPTED ☒DENIED ☐

If denied, why? \_\_\_\_\_

NAME (PRINT) Paul D. GormanDATE 11/25TITLE RepSIGNATURE Adrian Reyes

C-138



## APPENDIX C

### Laboratory Analytical Reports & Chain of Custody Documentation

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

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January 22, 2025

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

RE: AVALON UT 657

Enclosed are the results of analyses for samples received by the laboratory on 01/16/25 13:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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 dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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: 01/16/2025  
 Reported: 01/22/2025  
 Project Name: AVALON UT 657  
 Project Number: 03C1558535  
 Project Location: XTO 32.5346-104.21384

Sampling Date: 01/15/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 01 5' (H250258-01)**

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	01/20/2025	ND	2.08	104	2.00	3.90	
Toluene*	<0.050	0.050	01/20/2025	ND	2.18	109	2.00	7.32	
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.46	123	2.00	8.06	
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.69	128	6.00	8.38	
Total BTEX	<0.300	0.300	01/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/21/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2025	ND	216	108	200	1.07	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	187	93.7	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 01/16/2025  
 Reported: 01/22/2025  
 Project Name: AVALON UT 657  
 Project Number: 03C1558535  
 Project Location: XTO 32.5346-104.21384

Sampling Date: 01/15/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 01 0-5' (H250258-02)**

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	01/20/2025	ND	2.08	104	2.00	3.90		
Toluene*	<0.050	0.050	01/20/2025	ND	2.18	109	2.00	7.32		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.46	123	2.00	8.06		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	7.69	128	6.00	8.38		
Total BTEx	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 133 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2025	ND	216	108	200	1.07	
DRO >C10-C28*	<10.0	10.0	01/20/2025	ND	187	93.7	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	01/20/2025	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

---

### Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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

\*=Accredited Analyte

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

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

Celey D. Keene, Lab Director/Quality Manager





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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> <u>Brian Hillard</u> <b>Address:</b> 601 N Marientfeld Street, Suite 400 <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701 <b>Phone #:</b> 575-937-3106 <b>Fax #:</b> <b>Project #:</b> 03C1558535 <b>Project Owner:</b> XTO Energy <b>Project Name:</b> <u>Arden UT657</u> <b>Project Location:</b> 32.5346, -104.21384 <b>Sample Name:</b> <u>Even Bor</u> <small>FOR LAB USE ONLY</small>										<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> XTO Energy, Inc <b>Attn:</b> Colton Brown <b>Address:</b> 3104 E Greene St <b>City:</b> Carlsbad <b>State:</b> NM <b>Zip:</b> 88220 <b>Phone #:</b> <b>Fax #:</b>										<b>ANALYSIS REQUEST</b>																			
<b>PLEASE NOTE:</b> Liability and Damages. Cardholder's liability and damage exclusive remedy for any claim arising under this card shall be limited to the amount paid by the cardholder for the purchase of the goods or services. In no event shall Cardholder be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by cardholder, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardholder, its subsidiaries, affiliates or successors.										<b>Relinquished By:</b> <b>Relinquished By:</b> <b>Time:</b>										<b>Received By:</b> <b>Received By:</b> <b>Time:</b>																			
<b>Delivered By:</b> (Circle One) <b>Sampler - UPS - Bus - Other:</b>										<b>Observed Temp. °C:</b> 9.0 <b>Corrected Temp. °C:</b> 1.3										<b>Sample Condition</b> <b>Cool</b> <input checked="" type="checkbox"/> <b>Intact</b> <input checked="" type="checkbox"/> <b>Yes</b> <input checked="" type="checkbox"/> <b>No</b> <input checked="" type="checkbox"/>										<b>CHECKED BY:</b> <b>(Initials)</b>									
<b>Turnaround Time:</b> <u>RTU</u> <b>Standard</b> <input checked="" type="checkbox"/> <b>Express</b> <input type="checkbox"/> <b>Thermometer ID:</b> <u>RTU1140</u> <b>RTU</b> <input checked="" type="checkbox"/> <b>Other</b> <input type="checkbox"/> <b>Corrected Temp. °C:</b> 9.5°C - 0.0°C										<b>Remarks:</b>										<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add Phone #:</b> <b>All Results are emailed. Please provide Email address:</b> <b>BBeall@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com</b>																			

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING		TPH 8015	BTEX 8021	Chloride 4500		
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME			
HS0358	F501	5'	G	1			✓					✓		11/5/23	1405	✓	✓	✓
	SW01	0-5'	C	1			✓							11/5/23	1415			





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

---

January 24, 2025

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

RE: AVALON UT 657

Enclosed are the results of analyses for samples received by the laboratory on 01/22/25 16:02.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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: 01/22/2025  
 Reported: 01/24/2025  
 Project Name: AVALON UT 657  
 Project Number: 03C1558535  
 Project Location: XTO 32.5346-104.21384

Sampling Date: 01/22/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 02 4 (H250397-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2025	ND	1.82	91.0	2.00	0.136	
Toluene*	<0.050	0.050	01/23/2025	ND	1.94	96.9	2.00	0.0302	
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	1.88	93.9	2.00	0.00697	
Total Xylenes*	<0.150	0.150	01/23/2025	ND	5.51	91.8	6.00	0.126	
Total BTX	<0.300	0.300	01/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/23/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	201	101	200	0.943	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	204	102	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 01/22/2025  
 Reported: 01/24/2025  
 Project Name: AVALON UT 657  
 Project Number: 03C1558535  
 Project Location: XTO 32.5346-104.21384

Sampling Date: 01/22/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 03 4 (H250397-02)**

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	01/23/2025	ND	1.82	91.0	2.00	0.136		
Toluene*	<0.050	0.050	01/23/2025	ND	1.94	96.9	2.00	0.0302		
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	1.88	93.9	2.00	0.00697		
Total Xylenes*	<0.150	0.150	01/23/2025	ND	5.51	91.8	6.00	0.126		
Total BTEX	<0.300	0.300	01/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/23/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	201	101	200	0.943	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	204	102	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 76.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 01/22/2025  
 Reported: 01/24/2025  
 Project Name: AVALON UT 657  
 Project Number: 03C1558535  
 Project Location: XTO 32.5346-104.21384

Sampling Date: 01/22/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 04 4 (H250397-03)**

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	01/23/2025	ND	1.82	91.0	2.00	0.136		
Toluene*	<0.050	0.050	01/23/2025	ND	1.94	96.9	2.00	0.0302		
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	1.88	93.9	2.00	0.00697		
Total Xylenes*	<0.150	0.150	01/23/2025	ND	5.51	91.8	6.00	0.126		
Total BTEX	<0.300	0.300	01/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	01/23/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	201	101	200	0.943	
DRO >C10-C28*	24.1	10.0	01/23/2025	ND	204	102	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 01/22/2025  
 Reported: 01/24/2025  
 Project Name: AVALON UT 657  
 Project Number: 03C1558535  
 Project Location: XTO 32.5346-104.21384

Sampling Date: 01/22/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 04 0-4 (H250397-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2025	ND	1.82	91.0	2.00	0.136		
Toluene*	<0.050	0.050	01/23/2025	ND	1.94	96.9	2.00	0.0302		
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	1.88	93.9	2.00	0.00697		
Total Xylenes*	<0.150	0.150	01/23/2025	ND	5.51	91.8	6.00	0.126		
Total BTEX	<0.300	0.300	01/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/23/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	201	101	200	0.943	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	204	102	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 01/22/2025  
 Reported: 01/24/2025  
 Project Name: AVALON UT 657  
 Project Number: 03C1558535  
 Project Location: XTO 32.5346-104.21384

Sampling Date: 01/22/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 05 0-4 (H250397-05)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2025	ND	1.82	91.0	2.00	0.136	
Toluene*	<0.050	0.050	01/23/2025	ND	1.94	96.9	2.00	0.0302	
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	1.88	93.9	2.00	0.00697	
Total Xylenes*	<0.150	0.150	01/23/2025	ND	5.51	91.8	6.00	0.126	
Total BTX	<0.300	0.300	01/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/23/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	201	101	200	0.943	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	204	102	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.5 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Tracy Hilliard

Address: 601 N Marlenfield Street, Suite 400

City: Midland State: TX Zip: 79701

Phone #: 575-437-3406 Fax #: Project Owner: XTO Energy

Project #: 0361858535 Project Name: AVA101 UT 657

Project Location: 30.5346, -104.21384

Sample Name: Maffio Sack's

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: XTO Energy, Inc

Attn: Cotton Brown

Address: 3104 E Greene St

City: Carlsbad State: NM Zip: 88220

Phone #:

Fax #:

PRESERV

SAMPLING

Lab I.D. Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE TIME

TPH 8015

BTEX 8021

Chloride 4500

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Relinquished By:

Date: 1/22/25

Received By:

Relinquished By:

Date: 1/22/25

Received By:

Delivered By: (Circle One)

Observed Temp. °C

Sample Condition

CHECKED BY:

Turnaround Time:

Standard

Bacteria (only)

Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Cool Intact

Initials

Thermometer ID

Rush

Cool Intact

Observed 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

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January 28, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: AVALON UT 657

Enclosed are the results of analyses for samples received by the laboratory on 01/27/25 11:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 01/27/2025  
Reported: 01/28/2025  
Project Name: AVALON UT 657  
Project Number: 03C1558535  
Project Location: XTO 32.5346-104.21384

Sampling Date: 01/24/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW 02 0-4 (H250467-01)**

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	01/28/2025	ND	1.87	93.7	2.00	6.17		
Toluene*	<0.050	0.050	01/28/2025	ND	1.97	98.5	2.00	6.08		
Ethylbenzene*	<0.050	0.050	01/28/2025	ND	1.90	94.8	2.00	6.19		
Total Xylenes*	<0.150	0.150	01/28/2025	ND	5.56	92.7	6.00	6.21		
Total BTEx	<0.300	0.300	01/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/28/2025	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	01/28/2025	ND	217	109	200	2.16	
DRO >C10-C28*	21.0	10.0	01/28/2025	ND	211	106	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 01/27/2025  
Reported: 01/28/2025  
Project Name: AVALON UT 657  
Project Number: 03C1558535  
Project Location: XTO 32.5346-104.21384

Sampling Date: 01/24/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW 03 0-4 (H250467-02)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/28/2025	ND	1.87	93.7	2.00	6.17		
Toluene*	<0.050	0.050	01/28/2025	ND	1.97	98.5	2.00	6.08		
Ethylbenzene*	<0.050	0.050	01/28/2025	ND	1.90	94.8	2.00	6.19		
Total Xylenes*	<0.150	0.150	01/28/2025	ND	5.56	92.7	6.00	6.21		
Total BTX	<0.300	0.300	01/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/28/2025	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	01/28/2025	ND	217	109	200	2.16	
DRO >C10-C28*	<10.0	10.0	01/28/2025	ND	211	106	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 01/27/2025  
Reported: 01/28/2025  
Project Name: AVALON UT 657  
Project Number: 03C1558535  
Project Location: XTO 32.5346-104.21384

Sampling Date: 01/24/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 10 4 (H250467-03)**

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	01/28/2025	ND	1.87	93.7	2.00	6.17		
Toluene*	<0.050	0.050	01/28/2025	ND	1.97	98.5	2.00	6.08		
Ethylbenzene*	<0.050	0.050	01/28/2025	ND	1.90	94.8	2.00	6.19		
Total Xylenes*	<0.150	0.150	01/28/2025	ND	5.56	92.7	6.00	6.21		
Total BTEX	<0.300	0.300	01/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	01/28/2025	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	01/28/2025	ND	217	109	200	2.16	
DRO >C10-C28*	<10.0	10.0	01/28/2025	ND	211	106	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

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

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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

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Celey D. Keene, Lab Director/Quality Manager







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January 29, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: AVALON UT 657

Enclosed are the results of analyses for samples received by the laboratory on 01/28/25 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	01/28/2025	Sampling Date:	01/27/2025
Reported:	01/29/2025	Sampling Type:	Soil
Project Name:	AVALON UT 657	Sampling Condition:	Cool & Intact
Project Number:	03C1558535	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.5346-104.21384		

**Sample ID: FS 07 4 (H250491-01)**

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	01/28/2025	ND	2.02	101	2.00	2.11	
Toluene*	<0.050	0.050	01/28/2025	ND	2.13	107	2.00	2.25	
Ethylbenzene*	<b>0.100</b>	0.050	01/28/2025	ND	2.10	105	2.00	2.18	GC-NC1
Total Xylenes*	<b>0.265</b>	0.150	01/28/2025	ND	6.33	105	6.00	3.30	
Total BTEX	<b>0.365</b>	0.300	01/28/2025	ND					GC-NC1

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>864</b>	16.0	01/29/2025	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>15.1</b>	10.0	01/29/2025	ND	224	112	200	14.8	
DRO >C10-C28*	<b>260</b>	10.0	01/29/2025	ND	236	118	200	16.2	
EXT DRO >C28-C36	<b>47.4</b>	10.0	01/29/2025	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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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-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

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Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP	DATE	TIME	BTEX	TPH	Chlorides
H250491	FS07	4	# CONTAINERS	11/27/05	12:17	✓	✓	✓
			GROUNDWATER					
			WASTEWATER					
			SOIL					
			OIL					
			SLUDGE					
			OTHER :					
			ACID/BASE:					
			ICE / COOL					
			OTHER :					

+ Cardinal cannot accept verbal changes. Please email changes to [coley.keene@cardinallabsnm.com](mailto:coley.keene@cardinallabsnm.com)



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---

January 31, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: AVALON UT 657

Enclosed are the results of analyses for samples received by the laboratory on 01/28/25 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at

[www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220Project: AVALON UT 657  
Project Number: 03C1558535  
Project Manager: TRACY HILLARD  
Fax To:Reported:  
31-Jan-25 15:42

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 08 4'	H250492-01	Soil	27-Jan-25 12:26	28-Jan-25 13:25
FS 11 4'	H250492-02	Soil	27-Jan-25 12:35	28-Jan-25 13:25
FS 09 2.5'	H250492-03	Soil	27-Jan-25 14:08	28-Jan-25 13:25
FS 12 4'	H250492-04	Soil	27-Jan-25 15:30	28-Jan-25 13:25

01/31/25 - Client requested a rerun of the TPH on sample -03. The rerun value came out lower and outside of the 30% RPD limit for the method. The TPH was replaced with the reanalyzed results. This is the revised report and will replace the one sent on 01/30/25.

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\*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: AVALON UT 657  
Project Number: 03C1558535  
Project Manager: TRACY HILLARD  
Fax To:

Reported:  
31-Jan-25 15:42

**FS 08 4'**  
**H250492-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>896</b>		16.0	mg/kg	4	5012916	HM	29-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	GC-NC
Total Xylenes*	<0.150	0.150	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5012863	JH	29-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	96.5 %	71.5-134	5012863	JH	29-Jan-25	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	5012833	MS	29-Jan-25	8015B
DRO >C10-C28*	381	10.0	mg/kg	1	5012833	MS	29-Jan-25	8015B
EXT DRO >C28-C36	74.3	10.0	mg/kg	1	5012833	MS	29-Jan-25	8015B

Surrogate: 1-Chlorooctane	89.1 %	48.2-134	5012833	MS	29-Jan-25	8015B
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Surrogate: 1-Chlorooctadecane	103 %	49.1-148	5012833	MS	29-Jan-25	8015B
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: AVALON UT 657  
Project Number: 03C1558535  
Project Manager: TRACY HILLARD  
Fax To:

Reported:  
31-Jan-25 15:42

**FS 11 4'**  
**H250492-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1340</b>		16.0	mg/kg	4	5012916	HM	29-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5012863	JH	29-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.2 %		71.5-134	5012863	JH	29-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5012839	MS	28-Jan-25	8015B	
DRO >C10-C28*	27.5		10.0	mg/kg	1	5012839	MS	28-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5012839	MS	28-Jan-25	8015B	

Surrogate: 1-Chlorooctane			92.3 %		48.2-134	5012839	MS	28-Jan-25	8015B	
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Surrogate: 1-Chlorooctadecane			92.6 %		49.1-148	5012839	MS	28-Jan-25	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: AVALON UT 657  
Project Number: 03C1558535  
Project Manager: TRACY HILLARD  
Fax To:

Reported:  
31-Jan-25 15:42

**FS 09 2.5'**  
**H250492-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	5012916	HM	29-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5012863	JH	29-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			93.9 %		71.5-134	5012863	JH	29-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5012839	MS	30-Jan-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>74.6</b>		10.0	mg/kg	1	5012839	MS	30-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5012839	MS	30-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.4 %		48.2-134	5012839	MS	30-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			77.9 %		49.1-148	5012839	MS	30-Jan-25	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: AVALON UT 657  
Project Number: 03C1558535  
Project Manager: TRACY HILLARD  
Fax To:

Reported:  
31-Jan-25 15:42

**FS 12 4'**  
**H250492-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>256</b>		16.0	mg/kg	4	5012916	HM	29-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5012863	JH	29-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			93.4 %		71.5-134	5012863	JH	29-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5012839	MS	28-Jan-25	8015B	
DRO >C10-C28*	<b>51.3</b>		10.0	mg/kg	1	5012839	MS	28-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5012839	MS	28-Jan-25	8015B	

Surrogate: 1-Chlorooctane			98.7 %		48.2-134	5012839	MS	28-Jan-25	8015B	
---------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			98.1 %		49.1-148	5012839	MS	28-Jan-25	8015B	
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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  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: AVALON UT 657  
Project Number: 03C1558535  
Project Manager: TRACY HILLARD  
Fax To:

Reported:  
31-Jan-25 15:42

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5012916 - 1:4 DI Water</b>									
<b>Blank (5012916-BLK1)</b>				Prepared & Analyzed: 29-Jan-25					
Chloride	ND	16.0	mg/kg						
<b>LCS (5012916-BS1)</b>				Prepared & Analyzed: 29-Jan-25					
Chloride	464	16.0	mg/kg	400		116	80-120		
<b>LCS Dup (5012916-BSD1)</b>				Prepared & Analyzed: 29-Jan-25					
Chloride	448	16.0	mg/kg	400		112	80-120	3.51	20

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: AVALON UT 657  
Project Number: 03C1558535  
Project Manager: TRACY HILLARD  
Fax To:

Reported:  
31-Jan-25 15:42

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5012863 - Volatiles****Blank (5012863-BLK1)**

Prepared: 28-Jan-25 Analyzed: 29-Jan-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		93.5	71.5-134			

**LCS (5012863-BS1)**

Prepared: 28-Jan-25 Analyzed: 29-Jan-25

Benzene	1.98	0.050	mg/kg	2.00		99.0	82.8-130			
Toluene	2.07	0.050	mg/kg	2.00		104	86-128			
Ethylbenzene	2.00	0.050	mg/kg	2.00		99.9	85.9-128			
m,p-Xylene	3.92	0.100	mg/kg	4.00		98.0	89-129			
o-Xylene	1.96	0.050	mg/kg	2.00		98.1	86.1-125			
Total Xylenes	5.88	0.150	mg/kg	6.00		98.0	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0457		mg/kg	0.0500		91.4	71.5-134			

**LCS Dup (5012863-BSD1)**

Prepared: 28-Jan-25 Analyzed: 29-Jan-25

Benzene	2.04	0.050	mg/kg	2.00		102	82.8-130	2.78	15.8	
Toluene	2.12	0.050	mg/kg	2.00		106	86-128	2.39	15.9	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	85.9-128	2.05	16	
m,p-Xylene	3.99	0.100	mg/kg	4.00		99.7	89-129	1.67	16.2	
o-Xylene	2.00	0.050	mg/kg	2.00		100	86.1-125	2.02	16.7	
Total Xylenes	5.99	0.150	mg/kg	6.00		99.8	88.2-128	1.79	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0452		mg/kg	0.0500		90.5	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: AVALON UT 657  
Project Number: 03C1558535  
Project Manager: TRACY HILLARD  
Fax To:

Reported:  
31-Jan-25 15:42

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5012833 - General Prep - Organics****Blank (5012833-BLK1)**

Prepared &amp; Analyzed: 28-Jan-25

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52.9		mg/kg	50.0		106	48.2-134			
Surrogate: 1-Chlorooctadecane	51.3		mg/kg	50.0		103	49.1-148			

**LCS (5012833-BS1)**

Prepared &amp; Analyzed: 28-Jan-25

GRO C6-C10	224	10.0	mg/kg	200		112	81.5-123			
DRO >C10-C28	236	10.0	mg/kg	200		118	77.7-122			
Total TPH C6-C28	461	10.0	mg/kg	400		115	80.9-121			
Surrogate: 1-Chlorooctane	65.7		mg/kg	50.0		131	48.2-134			
Surrogate: 1-Chlorooctadecane	65.0		mg/kg	50.0		130	49.1-148			

**LCS Dup (5012833-BS1)**

Prepared &amp; Analyzed: 28-Jan-25

GRO C6-C10	193	10.0	mg/kg	200		96.7	81.5-123	14.8	13	QR-04
DRO >C10-C28	201	10.0	mg/kg	200		101	77.7-122	16.2	15.6	QR-04
Total TPH C6-C28	395	10.0	mg/kg	400		98.6	80.9-121	15.5	18.5	
Surrogate: 1-Chlorooctane	58.4		mg/kg	50.0		117	48.2-134			
Surrogate: 1-Chlorooctadecane	57.2		mg/kg	50.0		114	49.1-148			

**Batch 5012839 - General Prep - Organics****Blank (5012839-BLK1)**

Prepared &amp; Analyzed: 28-Jan-25

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	57.2		mg/kg	50.0		114	48.2-134			
Surrogate: 1-Chlorooctadecane	59.1		mg/kg	50.0		118	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: AVALON UT 657  
Project Number: 03C1558535  
Project Manager: TRACY HILLARD  
Fax To:

Reported:  
31-Jan-25 15:42

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5012839 - General Prep - Organics****LCS (5012839-BS1)**

Prepared &amp; Analyzed: 28-Jan-25

GRO C6-C10	201	10.0	mg/kg	200		101	81.5-123			
DRO >C10-C28	197	10.0	mg/kg	200		98.6	77.7-122			
Total TPH C6-C28	398	10.0	mg/kg	400		99.6	80.9-121			
Surrogate: 1-Chlorooctane	58.4		mg/kg	50.0		117	48.2-134			
Surrogate: 1-Chlorooctadecane	57.8		mg/kg	50.0		116	49.1-148			

**LCS Dup (5012839-BS1)**

Prepared &amp; Analyzed: 28-Jan-25

GRO C6-C10	201	10.0	mg/kg	200		100	81.5-123	0.190	13	
DRO >C10-C28	196	10.0	mg/kg	200		97.9	77.7-122	0.755	15.6	
Total TPH C6-C28	397	10.0	mg/kg	400		99.1	80.9-121	0.469	18.5	
Surrogate: 1-Chlorooctane	58.0		mg/kg	50.0		116	48.2-134			
Surrogate: 1-Chlorooctadecane	60.1		mg/kg	50.0		120	49.1-148			

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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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Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





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

---

March 05, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: AVALON UT 657

Enclosed are the results of analyses for samples received by the laboratory on 02/27/25 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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 dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 02/27/2025  
Reported: 03/05/2025  
Project Name: AVALON UT 657  
Project Number: 03C1558535  
Project Location: XTO 32.5346-104.21384

Sampling Date: 02/26/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: BF 01 0.5' (H251177-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2025	ND	2.12	106	2.00	5.54	
Toluene*	<0.050	0.050	03/03/2025	ND	2.18	109	2.00	6.90	
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.27	113	2.00	8.70	
Total Xylenes*	<0.150	0.150	03/03/2025	ND	7.04	117	6.00	9.29	
Total BTX	<0.300	0.300	03/03/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/03/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	10.5	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 92.2 % 71.8-148

Surrogate: 1-Chlorooctadecane 88.0 % 63.9-155

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





---

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---

### Notes and Definitions

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

---

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>(575) 393-2326 FAX (575) 383-2476</b> Company Name: Ensolum, LLC							<b>BILL TO</b>							<b>ANALYSIS REQUEST</b>													
Project Manager: Tracy Hillard														P.O. #:													
Address: 3122 National Parks Hwy														Company: XTO Energy													
City: Carlsbad														Attn: Colton Brown													
State: NM Zip: 88220														Address: 3104 E Green St													
Phone #: _____ Fax #: _____														City: Carlsbad													
Project #: 03CIS58535 Project Owner: XTO														State: NM Zip: 88220													
Project Name: Axxon UT 657														Phone #: _____													
Project Location: Esady County														Fax #: _____													
Sample Name: Alex Ferra																											
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING															
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
HES1111	BFO1	0.5'	C	1	X						X			2/24/05	1400	X	Chlorides	X	TPH	X	BTEX						
<i>[Handwritten signature across the grid]</i>																											
PLATE NOTE: Liability and Damages. Cardinal's liability and client's respective liability for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. 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 interruption, loss of sale, 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 theories or otherwise.																											
Relinquished By: _____ Date: 2/27/05														Received By: _____ Date: 2/27/05													
Relinquished By: _____ Time: 1400														Received By: _____ Time: 1400													
Observed Temp.: °C 3.1 Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														CHECKED BY: (Initials) _____													
Corrected Temp.: °C 34														Thermometer ID: _____ Calibration Factor: _____													
Delivered By: (Circle One) Sampler - UPS - Bus - Other:														Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> <i>4 day</i>													
Remarks: Incident # : n APP 2420136803 Last Center: 113 e181001														Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: THillard@ensolum.com, TMorrissey@ensolum.com, KThomas@ensolum.com													
Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No														Corrected Temp.: °C _____													



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

---

February 11, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: AVALON UT 657

Enclosed are the results of analyses for samples received by the laboratory on 01/28/25 16:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at

[www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705Project: AVALON UT 657  
Project Number: 03C1558535  
Project Manager: TRACY HILLARD  
Fax To:Reported:  
11-Feb-25 15:19

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW 06 0-4'	H250509-01	Soil	28-Jan-25 13:13	28-Jan-25 16:41
SW 07 0-4'	H250509-02	Soil	28-Jan-25 12:21	28-Jan-25 16:41
FS 05 7'	H250509-03	Soil	28-Jan-25 13:21	28-Jan-25 16:41
FS 06 7'	H250509-04	Soil	28-Jan-25 13:35	28-Jan-25 16:41
SW 08 4-7'	H250509-05	Soil	28-Jan-25 13:30	28-Jan-25 16:41

02/11/25 - Client changed the sample ID on -05 (see COC). This is the revised report and will replace the one sent on 01/30/25.

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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  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: AVALON UT 657  
Project Number: 03C1558535  
Project Manager: TRACY HILLARD  
Fax To:

Reported:  
11-Feb-25 15:19

**SW 06 0-4'**  
**H250509-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	5012915	AC	29-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5012863	JH	29-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 71.5-134 5012863 JH 29-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5012906	MS	29-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5012906	MS	29-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5012906	MS	29-Jan-25	8015B	

Surrogate: 1-Chlorooctane 97.6 % 48.2-134 5012906 MS 29-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 104 % 49.1-148 5012906 MS 29-Jan-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: AVALON UT 657  
Project Number: 03C1558535  
Project Manager: TRACY HILLARD  
Fax To:

Reported:  
11-Feb-25 15:19

**SW 07 0-4'**  
**H250509-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	5012915	AC	29-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5012863	JH	29-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.3 %		71.5-134	5012863	JH	29-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5012906	MS	29-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5012906	MS	29-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5012906	MS	29-Jan-25	8015B	

Surrogate: 1-Chlorooctane			89.4 %		48.2-134	5012906	MS	29-Jan-25	8015B	
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Surrogate: 1-Chlorooctadecane			96.8 %		49.1-148	5012906	MS	29-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: AVALON UT 657  
Project Number: 03C1558535  
Project Manager: TRACY HILLARD  
Fax To:

Reported:  
11-Feb-25 15:19

**FS 05 7'**  
**H250509-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>960</b>		16.0	mg/kg	4	5012915	AC	29-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5012863	JH	29-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134 5012863 JH 29-Jan-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5012906	MS	29-Jan-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>39.3</b>		10.0	mg/kg	1	5012906	MS	29-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5012906	MS	29-Jan-25	8015B	

Surrogate: 1-Chlorooctane 101 % 48.2-134 5012906 MS 29-Jan-25 8015B

Surrogate: 1-Chlorooctadecane 109 % 49.1-148 5012906 MS 29-Jan-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: AVALON UT 657  
Project Number: 03C1558535  
Project Manager: TRACY HILLARD  
Fax To:

Reported:  
11-Feb-25 15:19

**FS 06 7'**  
**H250509-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1040</b>		16.0	mg/kg	4	5012915	AC	29-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5012863	JH	29-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.4 %		71.5-134	5012863	JH	29-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5012906	MS	29-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5012906	MS	29-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5012906	MS	29-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			99.8 %		48.2-134	5012906	MS	29-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			108 %		49.1-148	5012906	MS	29-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: AVALON UT 657  
Project Number: 03C1558535  
Project Manager: TRACY HILLARD  
Fax To:

Reported:  
11-Feb-25 15:19

**SW 08 4-7'**  
**H250509-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>368</b>		16.0	mg/kg	4	5012915	AC	29-Jan-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5012863	JH	29-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5012863	JH	29-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.5 %		71.5-134	5012863	JH	29-Jan-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5012906	MS	29-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5012906	MS	29-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5012906	MS	29-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.4 %		48.2-134	5012906	MS	29-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.5 %		49.1-148	5012906	MS	29-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: AVALON UT 657  
Project Number: 03C1558535  
Project Manager: TRACY HILLARD  
Fax To:

Reported:  
11-Feb-25 15:19

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5012915 - 1:4 DI Water</b>									
<b>Blank (5012915-BLK1)</b>					Prepared & Analyzed: 29-Jan-25				
Chloride	ND	16.0	mg/kg						
<b>LCS (5012915-BS1)</b>					Prepared & Analyzed: 29-Jan-25				
Chloride	432	16.0	mg/kg	400	108	80-120			
<b>LCS Dup (5012915-BSD1)</b>					Prepared & Analyzed: 29-Jan-25				
Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20	

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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: AVALON UT 657  
Project Number: 03C1558535  
Project Manager: TRACY HILLARD  
Fax To:

Reported:  
11-Feb-25 15:19

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5012863 - Volatiles****Blank (5012863-BLK1)**

Prepared: 28-Jan-25 Analyzed: 29-Jan-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		93.5	71.5-134			

**LCS (5012863-BS1)**

Prepared: 28-Jan-25 Analyzed: 29-Jan-25

Benzene	1.98	0.050	mg/kg	2.00		99.0	82.8-130			
Toluene	2.07	0.050	mg/kg	2.00		104	86-128			
Ethylbenzene	2.00	0.050	mg/kg	2.00		99.9	85.9-128			
m,p-Xylene	3.92	0.100	mg/kg	4.00		98.0	89-129			
o-Xylene	1.96	0.050	mg/kg	2.00		98.1	86.1-125			
Total Xylenes	5.88	0.150	mg/kg	6.00		98.0	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0457		mg/kg	0.0500		91.4	71.5-134			

**LCS Dup (5012863-BSD1)**

Prepared: 28-Jan-25 Analyzed: 29-Jan-25

Benzene	2.04	0.050	mg/kg	2.00		102	82.8-130	2.78	15.8	
Toluene	2.12	0.050	mg/kg	2.00		106	86-128	2.39	15.9	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	85.9-128	2.05	16	
m,p-Xylene	3.99	0.100	mg/kg	4.00		99.7	89-129	1.67	16.2	
o-Xylene	2.00	0.050	mg/kg	2.00		100	86.1-125	2.02	16.7	
Total Xylenes	5.99	0.150	mg/kg	6.00		99.8	88.2-128	1.79	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0452		mg/kg	0.0500		90.5	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: AVALON UT 657  
Project Number: 03C1558535  
Project Manager: TRACY HILLARD  
Fax To:

Reported:  
11-Feb-25 15:19

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5012906 - General Prep - Organics****Blank (5012906-BLK1)**

Prepared &amp; Analyzed: 29-Jan-25

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52.0		mg/kg	50.0		104	48.2-134			
Surrogate: 1-Chlorooctadecane	54.0		mg/kg	50.0		108	49.1-148			

**LCS (5012906-BS1)**

Prepared &amp; Analyzed: 29-Jan-25

GRO C6-C10	218	10.0	mg/kg	200		109	81.5-123			
DRO >C10-C28	214	10.0	mg/kg	200		107	77.7-122			
Total TPH C6-C28	431	10.0	mg/kg	400		108	80.9-121			
Surrogate: 1-Chlorooctane	54.6		mg/kg	50.0		109	48.2-134			
Surrogate: 1-Chlorooctadecane	54.8		mg/kg	50.0		110	49.1-148			

**LCS Dup (5012906-BSD1)**

Prepared &amp; Analyzed: 29-Jan-25

GRO C6-C10	225	10.0	mg/kg	200		112	81.5-123	3.32	13	
DRO >C10-C28	227	10.0	mg/kg	200		113	77.7-122	5.92	15.6	
Total TPH C6-C28	451	10.0	mg/kg	400		113	80.9-121	4.62	18.5	
Surrogate: 1-Chlorooctane	56.7		mg/kg	50.0		113	48.2-134			
Surrogate: 1-Chlorooctadecane	56.0		mg/kg	50.0		112	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

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

---

Cardinal Laboratories

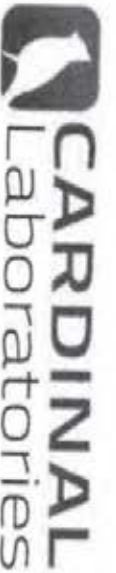
\*=Accredited Analyte

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

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

---

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager: <u>Tracey Hillard</u>		P.O. #:			
Address: 601 N Marland Street, Suite 400		Company: XTO Energy, Inc			
City: Midland		Attn: Colton Brown			
State: TX Zip: 79701		Address: 3104 E Greene St			
Phone #: 575-937-3906 Fax #:		City: Carlsbad			
Project #: 021558535 Project Owner: XTO Energy		State: NM Zip: 88220			
Project Name: <u>Aviation UT 657</u>		Phone #:			
Project Location: <u>32.5346, -104.21384</u>		Fax #:			
Sampler Name: <u>Mario Saez</u>					

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
4250509	1 SW06	0-4'	C	1								1313	✓	✓	✓
	2 SW07	0-4'	C	1								1321	✓	✓	✓
	3 FS05	7'	C	1								1321	✓	✓	✓
	4 FS06	7'	C	1								1335	✓	✓	✓
	5 SW08	4-7'	C	1								1330	✓	✓	✓
	* SW08														

Relinquished By: <u>[Signature]</u>	Date: <u>4/28/25</u>	Received By: <u>[Signature]</u>	Date: <u>4/28/25</u>
Relinquished By: <u>[Signature]</u>	Date: <u>4/28/25</u>	Received By: <u>[Signature]</u>	Date: <u>4/28/25</u>

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	BP
		Coil Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Turnaround Time: <u>1136181001</u>	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition <input checked="" type="checkbox"/>	Corrected Temp. °C
Thermometer ID #113	Correction Factor: -0.5°C	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp. °C

REMARKS: Incident # 1136181001 \* Customer requested ID Change 5. 4/11/25

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





## APPENDIX D

September 26, 2024, *Remediation Work Plan*

---



September 26, 2024

**New Mexico Oil Conservation Division**

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

**Re: Remediation Work Plan  
Avalon UT 657  
Incident Number nAPP2420136803  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan (Work Plan)* to document assessment and delineation activities completed to date and propose a work plan to address waste-containing soil identified at the Avalon UT 657 (Site). The purpose of the remediation activities was to determine the presence or absence of impacted and/or waste-containing soil resulting from a produced water and crude oil release at the Site. The following *Work Plan* proposes to remove impacted soil and waste-containing soil identified within the release extent.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit B, Section 31, Township 20 South, Range 28 East, in Eddy County, New Mexico (32.5346°, -104.21384°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On June 28, 2024, corrosion of a flow line resulted in the release of 11 barrels (bbls) of produced water and 5 bbls of crude oil into the adjacent pasture area. No fluids were recovered. XTO submitted a Notification of Release (NOR) and Initial C-141 Application (C-141) on July 19, 2024. The release was assigned Incident Number nAPP2420136803.

**SITE CHARACTERIZATION**

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 and potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. On September 21, 1995, a New Mexico Office of the State Engineer (NMOSE) permitted well (CP-851) was measured and recorded a depth to groundwater of 115 feet bgs. The total depth of the well is 255 feet bgs. The location of the well is approximately 137 feet southwest of the release and is depicted on Figure 1. The CP-851 well was appropriated in September 1996 for use for "livestock watering" and "drinking and sanitary purposes and the irrigation of non-commercial trees, shrubs and lawns in conjunction with a commercial operation".

XTO Energy, Inc.  
Remediation Work Plan  
Avalon UT 657

Further investigation was completed to confirm the existence, location, and function of this well. Partial investigation was completed on October 1, 2019, for an approved release, Incident Number NAB1815756705. A water quality sample (WS01) was collected and submitted for analysis of total dissolved solids (TDS) by Standard Method (SM) 2540C. Laboratory analytical results for water sample WS01 indicated a TDS concentration of 11,600 milligrams per liter (mg/L). Based on a TDS concentration greater than 10,000 mg/L, the water well is not considered a fresh water well. The Well Record and Log and laboratory analytical report is included in Appendix A. On September 24, 2024, Ensolum personnel conducted a pedestrian survey to confirm the location of the well and distance to the release. The well was reported to be located at 32.53437°, -104.21421°; however, the physical location of the well is 32.534988°, -104.215215°, which is 430 feet northwest of the Site. Photographic documentation was completed during the investigation and a photographic log is included in Appendix B. The location of CP-851 is updated on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 1,187 feet northwest 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 not underlain by unstable geology (medium potential karst designation area).

## VARIANCE REQUEST AND CLOSURE CRITERIA

The New Mexico Oil Conservation Division (NMOCD) has a preference of depth to groundwater determinations to be within the last 25 years. Due to CP-851 depth to groundwater being determined 29 years prior to the date of the release, it exceeds the preferred age of data. Based on the lack of sensitive receptors at the Site, the Site not being underlain by unstable geology, and the reclamation standard being utilized in the top 4 feet bgs, XTO is requesting a variance for the preferred age of the nearest depth to groundwater data guideline.

Based on the results of the Site Characterization and the requested variance, 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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

## SITE ASSESSMENT AND DELINEATION ACTIVITIES

On September 17, 2024, Ensolum personnel conducted a Site visit to evaluate the release extent based on information in the C-141 and visual observations. The release extent was mapped utilizing a handheld



XTO Energy, Inc.  
Remediation Work Plan  
Avalon UT 657

Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

On September 20, 2024, Ensolum personnel returned to the Site to collect delineation samples from within the release. Three boreholes, BH01 through BH03, were advanced via hand auger within the release to assess the vertical extent of the release to terminal depths ranging from 1-foot bgs to 7 feet bgs. Delineation soil samples were collected from each borehole at depths ranging from 0.5 feet to 7 feet bgs. 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 were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 2.

The delineation 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-GRO, TPH-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 BH01 through BH03A, collected at depths ranging from 0.5 feet bgs to 5 feet bgs, indicated TPH-GRO/TPH-DRO, TPH, and/or chloride concentrations exceeded the Closure Criteria and/or reclamation requirement. Vertical delineation could not be achieved in boreholes BH01 and BH02 due to hand auger refusal; however, BH03B at 7 feet bgs indicated all COCs were compliant with the Closure Criteria, successfully defining the vertical extent of release. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

## PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate impacted and waste-containing soil with elevated TPH and chloride concentrations exists in the pasture across an approximate 2,140 square foot area and extends to depths ranging from 0.5 feet to 7 feet bgs. As such, XTO proposes to complete the following remediation activities:

- Additional investigation to confirm depth to groundwater at CP-851.
- Excavation of impacted and waste-containing soil to a maximum depth of up to 7 feet bgs. Excavation will proceed laterally until sidewall samples confirm all COC concentrations are compliant with the Closure Criteria and/or reclamation requirement.
- An estimated 560 cubic yards of soil will be excavated and disposed of at the R360 disposal facility in Hobbs, New Mexico.
- The excavation will be backfilled with locally procured material and recontoured to match pre-existing conditions.
- The backfilled area will be reseeded with a BLM approved seed mix within 90 days or during the next BLM recommended planting season.

XTO Energy, Inc.  
Remediation Work Plan  
Avalon UT 657

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

Sincerely,  
**Ensolum, LLC**



Tracy Hillard  
Project Engineer



Daniel R. Moir, PG (licensed in WY & TX)  
Senior Managing Geologist

cc: Amy Ruth, XTO  
Amanda Garcia, XTO  
BLM

Appendices:

Figure 1	Site Location Map
Figure 2	Delineation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records and Laboratory Analytical Report
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES





Eddy County, New Mexico

1





## Delineation Soil Sample Locations

XTO Energy, Inc

Avalon UT 657

Incident Number: nAPP2420136803

Unit B, Sec 31, T20S, R28E

Eddy County, New Mexico

FIGURE

2



TABLES





TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
Avalon UT 657  
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	1,000	2,500	20,000
Delineation Soil Samples										
BH01	09/20/2024	0.5	<0.050	9.92	575	12,700	2,420	<b>13,275</b>	<b>15,695</b>	<b>4,240</b>
BH01A	09/20/2024	1	<0.200	33.5	726	8,970	1,670	<b>9,696</b>	<b>11,366</b>	<b>8,260</b>
BH02	09/20/2024	0.5	<0.050	10.2	618	13,400	2,670	<b>14,018</b>	<b>16,688</b>	<b>3,000</b>
BH02A	09/20/2024	5	<0.050	3.56	162	1,760	310	<b>1,922</b>	2,232	6,720
BH03	09/20/2024	0.5	<0.050	31.0	1,970	21,500	3,750	<b>23,470</b>	<b>27,220</b>	48.0
BH03A	09/20/2024	5	<0.050	1.38	60.9	1,250	206	<b>1,311</b>	1,517	80.0
BH03B	09/20/2024	7	<0.050	<0.300	14.2	490	89	504	594	96.0

## 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  
and Laboratory Analytical Report

---

READ INSTRUCTIONS ON BACK

Revised June 1991

# APPLICATION TO APPROPRIATE UNDERGROUND WATERS IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

L26281

1. Name and mailing address of applicant:

File No. CP-851

RECEIVED: 08-16-95

Exxon Corporation (Joe R. Glass - Agent)P.O. Box 1600, ML-14Midland, Texas 797022. Describe well location under one of the following subheadings: Avalon WSW #1a. SE 1/4 NW 1/4 NE 1/4 of Sec. 31 Twp. 20S Rge. 28E NMPM,  
In Eddy County.b. X = \_\_\_\_\_ feet, Y = \_\_\_\_\_ feet, New Mexico Coordinate System  
Zone in the \_\_\_\_\_ Grant.3. Approximate depth (if known) 250 feet; outside diameter of casing 6 5/8" inches.Name of driller (if known) Glenn's Water Well Service, Inc., Tatum, New Mexico 88267

4. Use of water (check use applied for):

☐ One household, non-commercial trees, lawn and garden not to exceed one acre.☐ Livestock watering.☐ More than one household, non-commercial trees, lawns and gardens not to exceed a total of one acre.☐ Drill and test a well intended to be used for domestic, drinking and sanitary or stock water purposes in conjunction with the building or dwelling unit.☐ Drinking and sanitary purposes and the irrigation of non-commercial trees, shrubs and lawns in conjunction with a commercial operation.☒ Prospecting, mining or drilling operations to discover or develop natural resources.☐ Construction of public works, highways and roads.

If any of the last three items were marked, give name and nature of business under Remarks (Item 5).

5. Remarks: Water from Avalon WSW #1 will be used during drilling operations on  
Exxon Corporation's Avalon (Delaware) Unit No. 2216.I, Joe R. Glass, affirm that the foregoing statements are true to the best of my knowledge and belief and that development shall not commence until approval of the permit has been obtained.Exxon Corporation, ApplicantBy: Joe R. Glass

Joe R. Glass

Date: August 14, 1995

## ACTION OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to specific conditions numbered 1, 3, 5a & 6 on the reverse side hereof. This permit will automatically expire unless this well is drilled or driven and the well record filed on or before August 31, 1996.

Thomas C. Turney  
State Engineer

By: Johnny R. Hernandez

Johnny R. Hernandez, Lea County Basin Supervisor

Date: August 17, 1995File No. CP-851WR Filed: 9/21/95Plugging Report Filed: N/A



## GENERAL CONDITIONS OF APPROVAL

- A. The maximum amount of water that may be appropriated under this permit is 3 acre-feet in any year.
- B. The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter (Section 72-12-12).
- C. Driller's well record must be filed with the State Engineer within 10 days after the well is drilled or driven. Failure to file the well record within that time shall result in automatic cancellation of the permit. Well record forms will be provided by the State Engineer upon request.
- D. The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- E. If the well under this permit is used at any time to serve more than one household or livestock in a commercial feed lot operation, or for drinking and sanitation purposes in conjunction with a commercial operation, the permittee shall comply with Specific Conditions of Approval number 5(b).
- F. In the event this well is combined with other wells permitted under Section 72-12-1 New Mexico Statutes Annotated, the total outdoor use shall not exceed the irrigation of one acre of non-commercial trees, lawn, and garden, or the equivalent outside consumptive use, and the total appropriation for household and outdoor use from the entire water distribution system shall not exceed 3 acre-feet in any year.
- G. If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.

## SPECIFIC CONDITIONS OF APPROVAL

(Applicable only when so indicated on the other side of this form.)

1. Depth of the well shall not exceed the thickness of the (a) valley fill or (b) Ogallala formation.
2. The well shall be constructed to artesian well specifications and the State Engineer shall be notified before casing is landed or cemented.
3. Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.
4. Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
5. A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor: (a) for each calendar month, on or before the 10th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 10th day of January of the following year.
6. The well shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 10 days.
7. Final approval for the use of the well shall be dependent upon a leakage test made by the State Engineer.
8. Use shall be limited strictly to household, drinking and sanitary purposes; water shall be conveyed from the well to the place of use in closed conduit and the effluent returned to the underground so that it will not appear on the surface. No irrigation of lawns, gardens, trees or use in any type of pool or pond is authorized under this permit.
9. No water shall be used from this well unless and until a permit has been issued to an applicant who intends to use the water for any of the purposes described in § 72-12-1.

## INSTRUCTIONS

The application shall be made in the name of the actual user of the well for the purpose specified in the application.

The application shall be filed in triplicate and forwarded with a \$5.00 filing fee to the State Engineer.

A separate application must be filed for each well to be drilled or used.

If well to be used is an existing well, an explanation (and the file number, if possible) should be given under Remarks (Item 5).

Applications for appropriation, well records and requests for information in the following basins should be addressed to the State Engineer at the location indicated.

Bluewater, Estancia, Rio Grande, Sandia, Gallup and San Juan Basins  
District No. 1, 3311 Candelaria, NE, Suite A, Albuquerque, NM 87107

Capitan, Carlsbad, Curry County, Fort Sumner, Hondo, Jal, Lea County, Penasco, Portales, Roswell, Tucumcari and Upper Pecos Basins District No. 2, 1900 West Second Street, Roswell, NM 88201

Animes, Gila-San Francisco, Lordsburg, Mimbres, Nutt-Hockett, Playas, San Simon and Virden Valley Basins  
District No. 3, P.O. Box 844, Deming, NM 88031

Lower Rio Grande, Tularosa, Hueco, Las Animas Creek and Hot Springs Basins  
District No. 4, 133 Wyatt Drive, Suite 3, Las Cruces, NM 88005

Canadian River Basin  
State Engineer Office, P.O. Box 25102, Santa Fe, NM 87504-5102



STATE OF NEW MEXICO

STATE ENGINEER OFFICE  
ROSWELL

THOMAS C. TURNEY  
State Engineer

PT 1 25

DISTRICT II  
1900 West Second St.  
Roswell, New Mexico 88201  
(505) 622-6521

September 3, 1996

Files: CP-850; CP-851

Joe R. Glass  
P. O. Box 1600, ML-14  
Midland, TX 79702

Re: Exxon Corporation

Dear Mr. Glass:

Our records indicate that applications to appropriate underground waters Nos. CP-850 and CP-851 were approved August 17, 1995, with well records and plugging reports due in this office on or before August 31, 1996.

Please advise this office if well No. CP-850 has been drilled.

Specific Condition of Approval No. 6 states: "The well shall be plugged upon completion of the permitted use and a plugging report shall be filed with the State Engineer within 10 days." Otherwise an application for other type use 72-12-1 should be filed.

If you have any questions concerning this matter please contact me.

Yours truly,

A handwritten signature in dark ink, appearing to read "Johnny R. Hernandez".

Johnny R. Hernandez  
Lea County Basin Supervisor

JRH/rpa  
cc: Santa Fe ✓



## STATE OF NEW MEXICO

## STATE ENGINEER OFFICE

~~EDWARD MARTINEZ~~ Thomas C. Turney  
STATE ENGINEER

ROSWELL

August 17, 1995

DISTRICT II  
1900 West Second St.  
Roswell, New Mexico 88201  
(505) 622-6521

✓ FILES: CP-850; CP-851

Exxon Corporation  
P. O. Box 1600, ML-14  
Midland, TX 79702

Attn: Joe R. Glass, Agent

Dear Mr. Glass:

Please be advised of the following specific conditions of approval as indicated on permits:

Appropriation and use of water under the above numbered permits shall not exceed a period of one year from the date of approval.

Totalizing meters shall be installed before the first branch of the discharge line from the wells and the installation shall be acceptable to the State Engineer; the State Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meters prior to appropriation of water and pumping records shall be submitted to the District Supervisor for each calendar month, on or before the 30th day of the following month.

The wells shall be plugged upon completion of the permitted use and plugging reports shall be filed in the office of the State Engineer within 10 days.

Meter sheets are enclosed for your convenience.

Yours truly,

A handwritten signature in dark ink, appearing to read "Johnny R. Hernandez".

Johnny R. Hernandez  
Lea County Basin Supervisor

JRH/rpa  
encl.  
cc: Santa Fe

*Meter sheets made.*



STATE ENGINEER OFFICE  
WELL RECORD

Revised June 1972

476231

Section 1. GENERAL INFORMATION

(A) Owner of well Exxon Company USA Owner's Well No. \_\_\_\_\_  
Street or Post Office Address P.O. Box 1600  
City and State Midland, Texas 79702-1600

Well was drilled under Permit No. CP-850 CP-851 and is located in the:  
a.  $\frac{SE}{NW}$   $\frac{NW}{NW}$   $\frac{NE}{SW}$   $\frac{31}{32}$  of Section 20-S. Township 28-E. Range N.M.P.M.  
b. Tract No. \_\_\_\_\_ of Map No. \_\_\_\_\_ of the \_\_\_\_\_  
c. Lot No. \_\_\_\_\_ of Block No. \_\_\_\_\_ of the \_\_\_\_\_  
Subdivision, recorded in \_\_\_\_\_ County.  
d. X= \_\_\_\_\_ feet, Y= \_\_\_\_\_ feet, N.M. Coordinate System \_\_\_\_\_ Zone in  
the \_\_\_\_\_ Grant.

(B) Drilling Contractor Glenn's Water Well Service License No. WD 421  
Address P.O. Box 692 Tatum, New Mexico 88267  
Drilling Began 9/14/95 Completed 9/14/95 Type tools rotary Size of hole 7 7/8 in.  
Elevation of land surface or \_\_\_\_\_ at well is \_\_\_\_\_ ft. Total depth of well 255 ft.  
Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 115 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
205	230	25	lime	12

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6 5/8	.188		1	257	257	orange peel	181	257

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor \_\_\_\_\_  
Address \_\_\_\_\_  
Plugging Method \_\_\_\_\_  
Date Well Plugged \_\_\_\_\_  
Plugging approved by: \_\_\_\_\_  
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 09-21-95 Quad \_\_\_\_\_ FWL \_\_\_\_\_ FSL \_\_\_\_\_  
File No. CP-851 Use WD Location No. 20.28.31.21411

## Section 6. LOG OF HOLE.

[illegible]

## Section 7. REMARKS AND ADDITIONAL INFORMATION

'95 SEP. 21 AM 10 34

ROSEVELL, JIM MEXICO

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Corby H. ...  
Driller

**INSTRUCTIONS:** This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

READ INSTRUCTIONS ON BACK

Revised June 1991

APPLICATION TO APPROPRIATE UNDERGROUND WATERS  
IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES 476246

1. Name and mailing address of applicant:

File No. CP-851

Exxon Corporation (Alex M. Correa - Agent)

RECEIVED: 09/10/96

P.O. Box 1600, ML-14

Midland, Texas 79702

2. Describe well location under one of the following subheadings:

a. SE 1/4 NW 1/4 NE 1/4 of Sec. 31 Twp. 20S Rge. 28E NMPH,  
in Eddy County.b. X = \_\_\_\_\_ feet, Y = \_\_\_\_\_ feet, New Mexico Coordinate System  
Zone in the \_\_\_\_\_ Grant.3. Approximate depth (if known) 255 feet; outside diameter of casing 6 5/8" inches.Name of driller (if known) Glenn's Water Well Service, Inc., Tatum, New Mexico 88267  
EXISTING WELL

4. Use of water (check use applied for):

☐ One household, non-commercial trees, lawn and garden not to exceed one acre.☒ Livestock watering.☐ More than one household, non-commercial trees, lawns and gardens not to exceed a total of one acre.☐ Drill and test a well intended to be used for domestic, drinking and sanitary or stock water purposes in conjunction with the building or dwelling unit.☒ Drinking and sanitary purposes and the irrigation of non-commercial trees, shrubs and lawns in conjunction with a commercial operation.☐ Prospecting, mining or drilling operations to discover or develop natural resources.☐ Construction of public works, highways and roads.

If any of the last three items were marked, give name and nature of business under Remarks (Item 5).

5. Remarks: The use of three (3) acre feet of water per year is requested. This  
water will be used for sanitary purposes at a one man field office and for  
livestock watering.I, Alex M. Correa, affirm that the foregoing statements are true to the best of my knowledge and belief and that development shall not commence until approval of the permit has been obtained.Exxon Corporation, ApplicantBy: Alex M. Correa  
Alex M. CorreaDate: September 6, 1996

## ACTION OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to specific conditions numbered 1 and 5b and H on the reverse side hereof. This permit will automatically expire unless this well is drilled or driven and the well record filed on or before existing well.

Thomas C. Turney

~~XXXXXXXXXXXX~~ State EngineerBy: Johnny R. Hernandez

Johnny R. Hernandez, Lea County Basin Supervisor

Date: September 12, 1996File No. CP-851

WELL RECORD FILED: 09/21/95

METER REQUIRED

SEE CONDITION OF APPROVAL No. 56



## GENERAL CONDITIONS OF APPROVAL

- A. The maximum amount of water that may be appropriated under this permit is 3 acre-feet in any year.
- B. The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter (Section 72-12-12).
- C. Driller's well record must be filed with the State Engineer within 10 days after the well is drilled or driven. Failure to file the well record within that time shall result in automatic cancellation of the permit. Well record forms will be provided by the State Engineer upon request.
- D. The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- E. If the well under this permit is used at any time to serve more than one household or livestock in a commercial feed lot operation, or for drinking and sanitation purposes in conjunction with a commercial operation, the permittee shall comply with Specific Conditions of Approval number 5(b).
- F. In the event this well is combined with other wells permitted under Section 72-12-1 New Mexico Statutes Annotated, the total outdoor use shall not exceed the irrigation of one acre of non-commercial trees, lawn, and garden, or the equivalent outside consumptive use, and the total appropriation for household and outdoor use from the entire water distribution system shall not exceed 3 acre-feet in any year.
- G. If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.

## SPECIFIC CONDITIONS OF APPROVAL

(Applicable only when so indicated on the other side of this form.)

1. Depth of the well shall not exceed the thickness of the (a) valley fill or (b) Ogallala formation.
2. The well shall be constructed to artesian well specifications and the State Engineer shall be notified before casing is landed or cemented.
3. Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.
4. Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
5. A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor: (a) for each calendar month, on or before the 10th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 10th day of January of the following year.
6. The well shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 10 days.
7. Final approval for the use of the well shall be dependent upon a leakage test made by the State Engineer.
8. Use shall be limited strictly to household, drinking and sanitary purposes; water shall be conveyed from the well to the place of use in closed conduit and the effluent returned to the underground so that it will not appear on the surface. No irrigation of lawns, gardens, trees or use in any type of pool or pond is authorized under this permit.
9. No water shall be used from this well unless and until a permit has been issued to an applicant who intends to use the water for any of the purposes described in § 72-12-1.

## INSTRUCTIONS

The application shall be made in the name of the actual user of the well for the purpose specified in the application.

The application shall be filed in triplicate and forwarded with a \$5.00 filing fee to the State Engineer.

A separate application must be filed for each well to be drilled or used.

If well to be used is an existing well, an explanation (and the file number, if possible) should be given under Remarks (Item 5).

Applicant's address should be addressed to:

Bluewater  
District

Capitan,  
and Upper

Animas, &  
District

Lower Rio  
District

Canadian  
State Eng

## General Conditions of Approval

- H. The amount and uses of water permitted under this Application are subject to such limitations as may be imposed by the courts or by lawful municipal and county ordinances which are more restrictive than applicable State Engineer Regulations and the conditions of this permit.

uncari

sins



## STATE OF NEW MEXICO

STATE ENGINEER OFFICE

ROSWELL

September 12, 1996

THOMAS C. TURNEY  
State EngineerSTATE ENGINEER OFFICE  
SANTA FE NEW MEXICODISTRICT II  
1900 West Second St.  
Roswell, New Mexico 88201  
(505) 622-6521

FILE: CP-851

Alex M. Correa  
Exxon Corporation  
P. O. Box 1600, ML-14  
Midland, TX 79702

Dear Mr. Correa:

Enclosed please find permit No. CP-851 for drinking & sanitary and stock purposes. Your attention is directed to the following specific conditions of approval as indicated on this permit:

The maximum amount of water that may be appropriated this permit is 3 acre-feet in any year.

A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the State Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water and pumping records shall be submitted to the District Supervisor on or before the 10th day of January, April, July and October of each year for the three preceding calendar months.

Meter sheets are enclosed for your convenience.

Yours truly,

A handwritten signature in cursive script, reading "Johnny R. Hernandez".

Johnny R. Hernandez  
Lea County Basin SupervisorJRH/rpa  
encl.

cc: Santa Fe ✓

**EXXON** COMPANY, U.S.A.

POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600

MIDLAND PRODUCTION ORGANIZATION  
OPERATIONS INTEGRITY

September 6, 1996

Files - CP-850; 851  
Exxon Corporation  
Avalon Delaware Unit  
WSW No. 1  
Sec. 31, T20S, R28E  
Eddy County, NM

State of New Mexico  
State Engineer Office  
1900 West Second St.  
Roswell, NM 88201

Dear Mr. Hernandez:

Please be advised that well No. CP-850 was not drilled. The renewal application and \$5.00 renewal fee for well No. CP-851 (Avalon Delaware Unit WSW No. 1) is attached. If you have any questions please call me at (915) 688-6782.

Sincerely,

  
Alex M. Correa

411000000 OFFICE  
ROSWELL, NEW MEXICO  
96 SEP 10 AM 11 32

amc:nmengr.doc

A DIVISION OF EXXON CORPORATION





**EXXON COMPANY, U.S.A.**  
A DIVISION OF EXXON CORPORATION  
**MIDLAND PRODUCTION ORGANIZATION**  
POST OFFICE BOX 1600  
MIDLAND, TEXAS 79702-1600

SETTLEMENT OF ACCOUNT  
THE ATTACHED CHECK IS IN FULL  
PAYMENT FOR THE ITEMS SHOWN  
BELOW AND CONSTITUTES RECEIPT

DESCRIPTION

Annual Renewal of Permit CP-851 for Avalon Delaware Unit WSW # 1



STATE OF NEW MEXICO

STATE ENGINEER OFFICE  
ROSWELL

THOMAS C. TURNEY  
State Engineer

DISTRICT II  
1900 West Second St.  
Roswell, New Mexico 88201  
(505) 622-6521

September 3, 1996

Files: CP-850; CP-851

Joe R. Glass  
P. O. Box 1600, ML-14  
Midland, TX 79702

Re: Exxon Corporation

Dear Mr. Glass:

Our records indicate that applications to appropriate underground waters Nos. CP-850 and CP-851 were approved August 17, 1995, with well records and plugging reports due in this office on or before August 31, 1996.

Please advise this office if well No. CP-850 has been drilled.

Specific Condition of Approval No. 6 states: "The well shall be plugged upon completion of the permitted use and a plugging report shall be filed with the State Engineer within 10 days." Otherwise an application for other type use 72-12-1 should be filed.

If you have any questions concerning this matter please contact me.

Yours truly,

A handwritten signature in black ink, appearing to read "Johnny R. Hernandez".

Johnny R. Hernandez  
Lea County Basin Supervisor

JRH/rpa  
cc: Santa Fe



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

ROSWELL

THOMAS C. TURNEY  
State Engineer

DISTRICT II  
1900 West Second St.  
Roswell, New Mexico 88201  
(505) 622-6521

June 26, 1997

File: CP-851

Karen S. Yarbrough  
Exxon Company, U.S.A.  
P. O. Box 1600  
Midland, TX 79702-1600

Dear Ms. Yarbrough:

Enclosed please find returned renewal application No. CP-851 and check No. 029439 in the amount of \$5.00. Our records show that a permit No. CP-851 (72-12-1) was approved September 12, 1996 for Drinking and Sanitary purposes and stock use.

The maximum amount of water that may be appropriated under the permit is 3 acre-feet of water in any year from well CP-851.

The renewal application will not be necessary unless the present status of the use of the well changes. Water usage reports however, shall continue to be submitted quarterly.

If you have any questions, please feel free to call me at this office.

Yours truly,

A handwritten signature in dark ink, appearing to read "Johnny R. Hernandez". The signature is fluid and cursive, with a large initial "J" and a long, sweeping underline.

Johnny R. Hernandez  
Lea County Basin Supervisor

JRH/rpa  
encl.  
cc: Santa Fe ✓



**EXXON** COMPANY, U.S.A.  
POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600

MIDLAND PRODUCTION ORGANIZATION  
OPERATIONS INTEGRITY

RECEIVED OFFICE  
ROSWELL, NEW MEXICO  
'97 JUN 25 AM 10 42

June 24, 1997


File No.: CP-851  
Avalon Delaware Unit WSW No. 1  
Sec. 31, T20S, R28E  
Eddy County, New Mexico

Mr. John R. Hernandez  
State of New Mexico  
State Engineer Officer  
1900 West Second Street  
Roswell, New Mexico 88201

Dear Mr. Hernandez:

It is our intent to renew our well No. CP-851 and attached is the renewal application and \$5.00 renewal fee. Please contact me at (915) 688-7871 if you have any questions regarding this application.

Sincerely,

  
Karen S. Yarbrough

/ksy:028

Attachments

- 1) Application to Appropriate Underground Waters
- 2) Check # 029439

A DIVISION OF EXXON CORPORATION



READ INSTRUCTIONS ON BACK

Revised June 1991

**APPLICATION TO APPROPRIATE UNDERGROUND WATERS  
IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES**

'97 JUN 25 AM 10 42

1. Name and mailing address of applicant: File No. CP-851
- Exxon Corporation (Karen S. Yarbrough - Agent)
- P.O. Box 1600, ML-14
- Midland, Texas 79702
2. Describe well location under one of the following subheadings:
- a. SE  $\frac{1}{4}$  NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  of Sec. 31 Twp. 20S Rge. 28E NMPM,  
in Eddy County.
- b. X = \_\_\_\_\_ feet, Y = \_\_\_\_\_ feet, New Mexico Coordinate System  
Zone in the \_\_\_\_\_ Grant.
3. Approximate depth (if known) 255 feet; outside diameter of casing 6 5/8 inches.
- Name of driller (if known) Glenn's Water Well Service, Inc., Tatum, New Mexico 88267
4. Use of water (check use applied for):
- ☐ One household, non-commercial trees, lawn and garden not to exceed one acre.
- ☒ Livestock watering.
- ☐ More than one household, non-commercial trees, lawns and gardens not to exceed a total of one acre.
- ☐ Drill and test a well intended to be used for domestic, drinking and sanitary or stock water purposes in conjunction with the building or dwelling unit.
- ☒ Drinking and sanitary purposes and the irrigation of non-commercial trees, shrubs and lawns in conjunction with a commercial operation.
- ☐ Prospecting, mining or drilling operations to discover or develop natural resources.
- ☐ Construction of public works, highways and roads.
- If any of the last three items were marked, give name and nature of business under Remarks (Item 5).
5. Remarks: The use of three (3) acre feet of water per year is requested. This water will be used for sanitary purposes at a one man field office and for livestock watering.

I, Karen S. Yarbrough, affirm that the foregoing statements are true to the best of my knowledge and belief and that development shall not commence until approval of the permit has been obtained.

Exxon Corporation, Applicant

By: Karen S. Yarbrough  
Karen S. Yarbrough

Date: June 19, 1997

**ACTION OF STATE ENGINEER**

This application is approved for the use indicated, subject to all general conditions and to specific conditions numbered \_\_\_\_\_ on the reverse side hereof. This permit will automatically expire unless this well is drilled or driven and the well record filed on or before \_\_\_\_\_.

Eluid L. Martinez, State Engineer

By: \_\_\_\_\_

Date: \_\_\_\_\_

File No. \_\_\_\_\_

## GENERAL CONDITIONS OF APPROVAL

- A. The maximum amount of water that may be appropriated under this permit is 3 acre-feet in any year.
- B. The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter (Section 72-12-12).
- C. Driller's well record must be filed with the State Engineer within 10 days after the well is drilled or driven. Failure to file the well record within that time shall result in automatic cancellation of the permit. Well record forms will be provided by the State Engineer upon request.
- D. The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- E. If the well under this permit is used at any time to serve more than one household or livestock in a commercial feed lot operation, or for drinking and sanitation purposes in conjunction with a commercial operation, the permittee shall comply with Specific Conditions of Approval number 5(b).
- F. In the event this well is combined with other wells permitted under Section 72-12-1 New Mexico Statutes Annotated, the total outdoor use shall not exceed the irrigation of one acre of non-commercial trees, lawn, and garden, or the equivalent outside consumptive use, and the total appropriation for household and outdoor use from the entire water distribution system shall not exceed 3 acre-feet in any year.
- G. If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.

## SPECIFIC CONDITIONS OF APPROVAL

(Applicable only when so indicated on the other side of this form.)

1. Depth of the well shall not exceed the thickness of the (a) valley fill or (b) Ogallala formation.
2. The well shall be constructed to artesian well specifications and the State Engineer shall be notified before casing is landed or cemented.
3. Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.
4. Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
5. A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor: (a) for each calendar month, on or before the 10th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 10th day of January of the following year.
6. The well shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 10 days.
7. Final approval for the use of the well shall be dependent upon a leakage test made by the State Engineer.
8. Use shall be limited strictly to household, drinking and sanitary purposes; water shall be conveyed from the well to the place of use in closed conduit and the effluent returned to the underground so that it will not appear on the surface. No irrigation of lawns, gardens, trees or use in any type of pool or pond is authorized under this permit.
9. No water shall be used from this well unless and until a permit has been issued to an applicant who intends to use the water for any of the purposes described in § 72-12-1.

## INSTRUCTIONS

The application shall be made in the name of the actual user of the well for the purpose specified in the application.

The application shall be filed in triplicate and forwarded with a \$5.00 filing fee to the State Engineer.

A separate application must be filed for each well to be drilled or used.

If well to be used is an existing well, an explanation (and the file number, if possible) should be given under Remarks (Item 5).

Applications for appropriation, well records and requests for information in the following basins should be addressed to the State Engineer at the location indicated.

Bluewater, Estancia, Rio Grande, Sandia, Gallup and San Juan Basins  
District No. 1, 3311 Candelaria, NE, Suite A, Albuquerque, NM 87107

Capitan, Carlsbad, Curry County, Fort Sumner, Hondo, Jal, Lea County, Penasco, Portales, Roswell, Tucumcari and Upper Pecos Basins District No. 2, 1900 West Second Street, Roswell, NM 88201

Animas, Gila-San Francisco, Lordsburg, Mimbres, Nutt-Hockett, Playas, San Simon and Virden Valley Basins  
District No. 3, P.O. Box 844, Deming, NM 88031

Lower Rio Grande, Tularosa, Hueco, Las Animas Creek and Hot Springs Basins  
District No. 4, 133 Wyatt Drive, Suite 3, Las Cruces, NM 88005

Canadian River Basin  
State Engineer Office, P.O. Box 25102, Santa Fe, NM 87504-5102



**EXXON** COMPANY, U.S.A.  
POST OFFICE BOX 4358 • HOUSTON, TEXAS 77210-4358

HOUSTON PRODUCTION ORGANIZATION  
PERMITTING

December 9, 1999

Notification of Name Change from Exxon  
Corporation to Exxon Mobil Corporation

OFFICE OF  
STATE ENGINEER  
SANTA FE, NEW MEXICO  
'99 DEC 15 PM 2 22

New Mexico Office of the State Engineer  
Water Rights Division  
Attn: Mr. Paul Saaverdra  
P. O. Box 25102  
Santa Fe, NM 87505

Dear Mr. Robinson,

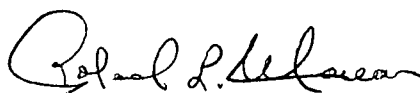
As you may be aware, Exxon Corporation and Mobil Corporation recently finalized a merger and realigned its business. The media and other reports, however, often fail to provide details of the corporate structure that may be of interest to governmental agencies.

Exxon Corporation will undergo a name change to Exxon Mobil Corporation. Exxon Mobil Corporation will remain the owner and operator of its existing properties and facilities, as well as relevant permits. Mobil Corporation will merge with an existing Exxon subsidiary, after which Mobil Corporation will become a subsidiary of Exxon Mobil Corporation. Mobil Corporation's subsidiaries will continue to own their own assets and act as operator of its assets after the merger as it did prior to the merger. Neither Mobil Corporation nor its subsidiaries will undergo a name change.

Please note the name change to Exxon Mobil Corporation in your records pertaining to any Exxon permits.

If you have any questions, please contact me at 713-431-1125.

Yours truly,



Roland L. Moreau  
Acting Environmental & Regulatory Manager

A DIVISION OF EXXON CORPORATION



LIST OF EXXON MOBIL CORPORATION NEW MEXICO  
FRESH WATER WELLS

Avalon Delaware Unit, Water Source Well No. 1  
Permit No. CP-851  
Eddy County, New Mexico

STATE ENGINEER OFFICE  
HOSIEN, NEW MEXICO  
200 JUN 28 AM 11:40

# Analytical Report 638613

for  
LT Environmental, Inc.

Project Manager: Dan Moir

ADU 157 (2RP-4778)

012918118

08-OCT-19

Collected By: Client



1089 N Canal Street  
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)  
Oklahoma (2017-142), North Carolina (681)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Tampa: Florida (E87429), North Carolina (483)





08-OCT-19

Project Manager: **Dan Moir**  
**LT Environmental, Inc.**  
4600 W. 60th Avenue  
Arvada, CO 80003

Reference: XENCO Report No(s): **638613**  
**ADU 157 (2RP-4778)**  
Project Address: Carlsbad, NM

**Dan Moir:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 638613. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 638613 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'.

**Jessica Kramer**  
Project Assistant

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



## Sample Cross Reference 638613

LT Environmental, Inc., Arvada, CO

ADU 157 (2RP-4778)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
WS01	W	10-01-19 11:20		638613-001



## CASE NARRATIVE

**Client Name:** LT Environmental, Inc.

**Project Name:** ADU 157 (2RP-4778)

Project ID: 012918118

Work Order Number(s): 638613

Report Date: 08-OCT-19

Date Received: 10/01/2019

---

**Sample receipt non conformances and comments:**

None

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**Sample receipt non conformances and comments per sample:**

None



Certificate of Analysis Summary 638613  
LT Environmental, Inc., Arvada, CO  
Project Name: ADU 157 (2RP-4778)

Date Received in Lab: Tue Oct-01-19 12:55 pm  
Report Date: 08-OCT-19  
Project Manager: Jessica Kramer

Project Id: 012918118  
Contact: Dan Moir  
Project Location: Carlsbad, NM

Analysis Requested	Lab Id:	638613-001			
	Field Id:	WS01			
	Depth:				
	Matrix:	WATER			
	Sampled:	Oct-01-19 11:20			
TDS by SM2540C SUB: T104704400-19-19	Extracted:				
	Analyzed:	Oct-03-19 15:00			
	Units/RL:	mg/L RL			
Total Dissolved Solids		11600 5.00			

Jessica Kramer  
Jessica Kramer  
Project Assistant

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.  
Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico  
Version: 1.0%



## Certificate of Analytical Results 638613

LT Environmental, Inc., Arvada, CO

ADU 157 (2RP-4778)

Sample Id: **WS01**

Matrix: Water

Date Received: 10.01.19 12.55

Lab Sample Id: 638613-001

Date Collected: 10.01.19 11.20

Analytical Method: TDS by SM2540C

Tech: SPC

% Moisture:

Analyst: SPC

Seq Number: 3103415

SUB: T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	11600	5.00	mg/L	10.03.19 15.00		1



## Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

**SMP** Client Sample      **BLK** Method Blank

**BKS/LCS** Blank Spike/Laboratory Control Sample      **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

**MD/SD** Method Duplicate/Sample Duplicate      **MS** Matrix Spike      **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation





**LT Environmental, Inc.**  
ADU 157 (2RP-4778)

**Analytical Method:** TDS by SM2540C

Seq Number: 3103415

MB Sample Id: 3103415-1-BLK

Matrix: Water

LCS Sample Id: 3103415-1-BKS

LCSD Sample Id: 3103415-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	<5.00	1000	985	99	986	99	80-120	0	10	mg/L	10.03.19 15:00	

**Analytical Method:** TDS by SM2540C

Seq Number: 3103415

Parent Sample Id: 638660-003

Matrix: Water

MD Sample Id: 638660-003 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	1130	1130	0	10	mg/L	10.03.19 15:00	

**Analytical Method:** TDS by SM2540C

Seq Number: 3103415

Parent Sample Id: 638845-007

Matrix: Water

MD Sample Id: 638845-007 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	1710	1720	1	10	mg/L	10.03.19 15:00	

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



## Chain of Custody

Work Order No: 628613

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0000 San Antonio, TX (210) 509-3334  
Midland, TX (432) 704-5440 El Paso, TX (915) 555-3443 Lubbock, TX (806) 794-1296 Cranford, NJ (432) 704-5440  
Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 448-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-67

Page 1 of 1

Project Manager:	Dan Meir	Bill to: (if different)	Kyle Littall
Company Name:	LI Environmental Inc.	Company Name:	XTO Energy
Address:	3300 North St. Street	Address:	3104 Green Street
City, State ZIP:	Midland TX 79705	City, State ZIP:	Corbush, MN 55220
Phone:	432.236.5849	Email:	bbelville@xto.com

Program: <input checked="" type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDO <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:
---

[illegible]

SAMPLE RECEIPT		Temp Blank:		Wet Ice:	
		Yes	No	Yes	No
Temperature (°C):	4.0				
Received intact:	Yes No				
Cooler Custody Seals:	Yes No N/A				
Sample Custody Seals:	Yes No N/A				
Thermometer ID		7NM907			
Correction Factor:		-0.2			
Total Containers:		1			

Number of Containers

05

HCl: HL  
NaOH: Na  
Zn Acetate+ NaOH: Zn

TAT starts the day received by the lab. if received by 4:00pm

[illegible]

Total 200.7 / 6010      200.8 / 6020:

*Circle Method(s) and Metal(s) to be analyzed*

8RCRA 13PMI Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fa Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn  
TCLP / SPLP 6010- 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U  
1631 / 245 1 / 7470 / 7474 - 40

**Notice:** Signature of this document and re-purchase of samples constitutes a valid purchase order from client company to Xorco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xorco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xorco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xorco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		19/11/2015			

## Inter-Office Shipment

Page 1 of 1

OS Number **49088**

Date/Time: 10/01/19 14:56

Created by: Elizabeth McClellan

Please send report to: Jessica Kramer

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: **Midland**

Air Bill No.: 776429985847

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
18613-001	W	WS01	10/01/19 11:20	SM2540C	TDS by SM2540C	10/07/19	10/08/19	JKR	TDS	

## Inter Office Shipment or Sample Comments:

Relinquished By:



Received By:



Elizabeth McClellan

Brianna Teel

Date Relinquished: 10/01/2019

Date Received: 10/02/2019 11:14

Cooler Temperature: 2.1





## XENCO Laboratories

## Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 49088

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sent By: Elizabeth McClellan

Date Sent: 10/01/2019 02:56 PM

Received By: Brianna Teel

Date Received: 10/02/2019 11:14 AM

## Sample Receipt Checklist

## Comments

#1 *Temperature of cooler(s)?	2.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 *Custody Seals Signed and dated for Containers/coolers	Yes
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

Corrective Action Taken:

## Nonconformance Documentation

Contact: \_\_\_\_\_ Contacted by : \_\_\_\_\_ Date: \_\_\_\_\_

Checklist reviewed by:

Brianna Teel

Date: 10/02/2019



Client: LT Environmental, Inc.

Date/ Time Received: 10/01/2019 12:55:00 PM

Work Order #: 638613

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	4	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6 *Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	Yes	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	Yes	Subbed to Midland
#18 Water VOC samples have zero headspace?	N/A	

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Elizabeth McClellan

Date: 10/01/2019

Checklist reviewed by:

Jessica Kramer

Date: 10/03/2019



## APPENDIX B

### Photographic Log

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**Photographic Log**

XTO Energy, Inc  
Avalon UT 657  
nAPP2420136803



Photograph: 1 Date: 9/24/2024  
Description: Reported location of CP-851  
View: Northeast



Photograph: 2 Date: 9/24/2024  
Description: Actual location of CP-851  
View: South



Photograph: 3 Date: 9/20/2024  
Description: Delineation activities  
View: Southwest




Photograph: 4 Date: 9/20/2024  
Description: Delineation activities  
View: East




## APPENDIX C


### Lithologic Soil Sampling Logs

---

 <b>ENSOLUM</b>		Sample Name: BH01		Date: 09/23/2024				
		Site Name: Avalon UT 657						
		Incident Number: nAPP2420136803						
		Job Number: 03C1558535						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By: AV		Method: Hand Auger		
Coordinates: 32.534608, -104.213520				Hole Diameter: 4"		Total Depth: 1.0'		
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 was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	5,443	297	Y	BH01	0.5	0	SP	(0-1') SAND - silty sand, Dark tan, very fine, non-plastic, cohesive, Hydrocarbon odor present
D	10,802	704	Y	BH01A	1	1	CCHE	(1') CALICHE, large caliche fragments, trace silt, some fine grain sand, odor, hydrocarbon staining
Total Depth @ 1-foot bgs - Hand Auger Refusal								
<div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border-left: 1px solid black; border-bottom: 1px solid black;"></div>								



 <b>ENSOLUM</b>		Sample Name: BH02		Date: 09/23/2024				
		Site Name: Avalon UT 657						
		Incident Number: nAPP2420136803						
		Job Number: 03C1558535						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.5334608, -104.213520			Logged By: AV		Method: Hand Auger			
			Hole Diameter: 4"		Total Depth: 5'			
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 was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	-	352	Y	BH02	0.5	0	SP	(0-4') SILTY SAND, dark tan, some gravel, odor
D	-	1300	Y		1	1	SW-SM	(@1') trace caliche
D	-	1161	Y		2	2	SW-SM	
D	-	1520	N		3	3	SW-SM	
D	-	1310	N		4	4	SW-SM	
D	-	433	N	BH02A	5	5	SP	(@5') SAND, reddish tan, with silt, some clay
						Total Depth @ 5 feet bgs - Hand Auger Refusal		

 <b>ENSOLUM</b>		Sample Name: BH03		Date: 09/23/2024				
		Site Name: Avalon UT 657						
		Incident Number: nAPP2420136803						
		Job Number: 03C1558535						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.534490, -104.213867			Logged By: AV		Method: Hand Auger			
			Hole Diameter: 4"		Total Depth: 7'			
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 was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	-	426	Y	BH03	0.5	0	SP	(0-2') SAND, with silt, brown, with gravel, poorly graded, with clay, low plasticity, odor
D	-	365	Y		1	1		
D	-	406	Y		2	2	SW-SM	(2-5') SILTY SAND, white-tan, caliche present, poorly graded, odor
						3		
						4		
D	-	225	N	BH03A	5	5	SP-SM	(5-7') SANDY SILT, tan, poorly graded
						6		
D	-	85.9	N	BH03B	7	7	SP-SC	(7') SAND, reddish tan, with silt, trace clay
						Total Depth @ 7 feet bgs		



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

---





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

September 24, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: AVALON UT 657

Enclosed are the results of analyses for samples received by the laboratory on 09/23/24 16:34.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 09/23/2024  
Reported: 09/24/2024  
Project Name: AVALON UT 657  
Project Number: 03C1558535  
Project Location: XTO

Sampling Date: 09/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 01 0.5' (H245768-01)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2024	ND	2.12	106	2.00	1.49	
Toluene*	0.339	0.050	09/24/2024	ND	2.08	104	2.00	0.802	
Ethylbenzene*	0.890	0.050	09/24/2024	ND	2.14	107	2.00	0.571	GC-NC1
Total Xylenes*	8.69	0.150	09/24/2024	ND	6.42	107	6.00	0.777	
Total BTX	9.92	0.300	09/24/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 469 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	09/24/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	575	50.0	09/23/2024	ND	205	102	200	1.86	
DRO >C10-C28*	12700	50.0	09/23/2024	ND	213	106	200	0.759	
EXT DRO >C28-C36	2420	50.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 155 % 48.2-134

Surrogate: 1-Chlorooctadecane 299 % 49.1-148

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  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 09/23/2024  
Reported: 09/24/2024  
Project Name: AVALON UT 657  
Project Number: 03C1558535  
Project Location: XTO

Sampling Date: 09/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 01A 1' (H245768-02)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/23/2024	ND	2.12	106	2.00	1.49	GC-NC
Toluene*	<b>3.15</b>	0.200	09/23/2024	ND	2.08	104	2.00	0.802	
Ethylbenzene*	<b>4.91</b>	0.200	09/23/2024	ND	2.14	107	2.00	0.571	GC-NC1
Total Xylenes*	<b>25.5</b>	0.600	09/23/2024	ND	6.42	107	6.00	0.777	
Total BTEX	<b>33.5</b>	1.20	09/23/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 225 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>8260</b>	16.0	09/24/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>726</b>	50.0	09/23/2024	ND	205	102	200	1.86	
DRO >C10-C28*	<b>8970</b>	50.0	09/23/2024	ND	213	106	200	0.759	
EXT DRO >C28-C36	<b>1670</b>	50.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 199 % 48.2-134

Surrogate: 1-Chlorooctadecane 213 % 49.1-148

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  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 09/23/2024  
Reported: 09/24/2024  
Project Name: AVALON UT 657  
Project Number: 03C1558535  
Project Location: XTO

Sampling Date: 09/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 03 0.5' (H245768-03)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2024	ND	2.12	106	2.00	1.49	
Toluene*	<b>0.520</b>	0.050	09/23/2024	ND	2.08	104	2.00	0.802	
Ethylbenzene*	<b>5.01</b>	0.050	09/23/2024	ND	2.14	107	2.00	0.571	GC-NC1
Total Xylenes*	<b>25.5</b>	0.150	09/23/2024	ND	6.42	107	6.00	0.777	
Total BTEX	<b>31.0</b>	0.300	09/23/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 780 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>48.0</b>	16.0	09/24/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>1970</b>	50.0	09/23/2024	ND	205	102	200	1.86	
DRO >C10-C28*	<b>21500</b>	50.0	09/23/2024	ND	213	106	200	0.759	
EXT DRO >C28-C36	<b>3750</b>	50.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 472 % 48.2-134

Surrogate: 1-Chlorooctadecane 476 % 49.1-148

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  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 09/23/2024  
Reported: 09/24/2024  
Project Name: AVALON UT 657  
Project Number: 03C1558535  
Project Location: XTO

Sampling Date: 09/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 03A 5' (H245768-04)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2024	ND	2.12	106	2.00	1.49	
Toluene*	<0.050	0.050	09/23/2024	ND	2.08	104	2.00	0.802	
Ethylbenzene*	0.209	0.050	09/23/2024	ND	2.14	107	2.00	0.571	GC-NC1
Total Xylenes*	1.17	0.150	09/23/2024	ND	6.42	107	6.00	0.777	
Total BTEX	1.38	0.300	09/23/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 154 % 71.5-134

Chloride, SM4500CI-B			mg/kg					Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/24/2024	ND	416	104	400	3.77	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	60.9	10.0	09/23/2024	ND	205	102	200	1.86	
DRO >C10-C28*	1250	10.0	09/23/2024	ND	213	106	200	0.759	
EXT DRO >C28-C36	206	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 09/23/2024  
Reported: 09/24/2024  
Project Name: AVALON UT 657  
Project Number: 03C1558535  
Project Location: XTO

Sampling Date: 09/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 03B 7' (H245768-05)**

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	09/23/2024	ND	2.12	106	2.00	1.49		
Toluene*	<0.050	0.050	09/23/2024	ND	2.08	104	2.00	0.802		
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.571		
<b>Total Xylenes*</b>	<b>0.210</b>	0.150	09/23/2024	ND	6.42	107	6.00	0.777		
Total BTEX	<0.300	0.300	09/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	14.2	10.0	09/23/2024	ND	205	102	200	1.86	
DRO >C10-C28*	490	10.0	09/23/2024	ND	213	106	200	0.759	
EXT DRO >C28-C36	89.4	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 09/23/2024  
Reported: 09/24/2024  
Project Name: AVALON UT 657  
Project Number: 03C1558535  
Project Location: XTO

Sampling Date: 09/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 02 0.5' (H245768-06)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2024	ND	2.12	106	2.00	1.49	GC-NC
Toluene*	0.670	0.050	09/24/2024	ND	2.08	104	2.00	0.802	
Ethylbenzene*	0.707	0.050	09/24/2024	ND	2.14	107	2.00	0.571	GC-NC1
Total Xylenes*	8.83	0.150	09/24/2024	ND	6.42	107	6.00	0.777	
Total BTEX	10.2	0.300	09/24/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 471 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	09/24/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	618	50.0	09/23/2024	ND	205	102	200	1.86	
DRO >C10-C28*	13400	50.0	09/23/2024	ND	213	106	200	0.759	
EXT DRO >C28-C36	2670	50.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 164 % 48.2-134

Surrogate: 1-Chlorooctadecane 295 % 49.1-148

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**Analytical Results For:**

ENSOLUM  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 09/23/2024  
Reported: 09/24/2024  
Project Name: AVALON UT 657  
Project Number: 03C1558535  
Project Location: XTO

Sampling Date: 09/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 02A 5' (H245768-07)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2024	ND	2.12	106	2.00	1.49	
Toluene*	<b>0.258</b>	0.050	09/23/2024	ND	2.08	104	2.00	0.802	
Ethylbenzene*	<b>0.640</b>	0.050	09/23/2024	ND	2.14	107	2.00	0.571	GC-NC1
Total Xylenes*	<b>2.66</b>	0.150	09/23/2024	ND	6.42	107	6.00	0.777	
Total BTX	<b>3.56</b>	0.300	09/23/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 163 % 71.5-134

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>6720</b>	16.0	09/24/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>162</b>	10.0	09/23/2024	ND	205	102	200	1.86	
DRO >C10-C28*	<b>1760</b>	10.0	09/23/2024	ND	213	106	200	0.759	
EXT DRO >C28-C36	<b>310</b>	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 137 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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

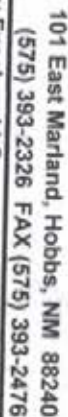
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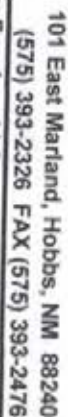
Celey D. Keene, Lab Director/Quality Manager





**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Page 10 of 11



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> Tracy Hiltner <b>Address:</b> 3122 National Parks Hwy <b>City:</b> Carlsbad <b>State:</b> NM <b>Zip:</b> 88220 <b>Phone #:</b> (505) 937-3902 <b>Fax #:</b> <b>Project #:</b> 03C1658535 <b>Project Owner:</b> <b>Project Name:</b> Avalon UT 657 <b>Project Location:</b> <b>Sampler Name:</b> Axel Volant <b>FOR LAB USE ONLY</b>										<b>Bill To</b> <b>P.O. #:</b> <b>Company:</b> RTO Energy <b>Attn:</b> Kelly RUTH <b>Address:</b> 3104 E. Green St <b>City:</b> Carlsbad <b>State:</b> NM <b>Zip:</b> 88220 <b>Phone #:</b> <b>Fax #:</b>										<b>ANALYSIS REQUEST</b>									
Lab I.D.	Sample I.D.	Depth (feet)	(G) RAB OR (C) OMP	# CONTAINERS	MATRIX					PRESERV	SAMPLING																		
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME														
205768	BH02 3H02A	0.5'	G 1	1			✓					✓		9-20-24	1417	✓	✓	✓											
										BY 9-20-24																			

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**Relinquished By:** \_\_\_\_\_ **Date:** 9-23-24 **Received By:** \_\_\_\_\_

**Relinquished By:** Axel Volant **Date:** 10/3/24 **Received By:** [Signature]

**Delivered By:** (Circle One) **Observed Temp. °C:** 64°C **Sample Condition:** Cool ☒ Intact ☐ **CHECKED BY:** (Initials) AD

**Sampler - UPS - Bus - Other:** **Corrected Temp. °C:** 5.8°C **Cool** ☐ **Intact** ☒ **Yes** ☐ **No** **No**

**Turnaround Time:** ☒ Standard ☐ Rush ☐ **Bacteria (only) Sample Condition:** Cool ☐ Intact ☒ **Observed Temp. °C:** **Corrected Temp. °C:**

**REMARKS:** Hiltner@ensolum.com, avolant@ensolum.com

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

**All Results are emailed. Please provide Email address:**

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS  
  
Action 387482

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	387482
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2420136803
Incident Name	NAPP2420136803 AVALON UT 657 @ 0
Incident Type	Release Other
Incident Status	Remediation Plan Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Avalon UT 657
Date Release Discovered	06/28/2024
Surface Owner	Federal

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: Corrosion   Flow Line - Production   Crude Oil   Released: 5 BBL   Recovered: 0 BBL   Lost: 5 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Produced Water   Released: 11 BBL   Recovered: 0 BBL   Lost: 11 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Condensate   Released: 0 BBL   Recovered: 0 BBL   Lost: 0 BBL.
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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**District III**

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

**District IV**

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 2

Action 387482

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	387482
	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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.

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

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 09/26/2024
--	--

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Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

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Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

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

**District IV**

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

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

QUESTIONS, Page 3

Action 387482

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	387482
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
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (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	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	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
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.	
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)	8260
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	27220
GRO+DRO	(EPA SW-846 Method 8015M)	23470
BTEX	(EPA SW-846 Method 8021B or 8260B)	34
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	09/20/2024
On what date will (or did) the final sampling or liner inspection occur	12/25/2024
On what date will (or was) the remediation complete(d)	12/25/2024
What is the estimated surface area (in square feet) that will be reclaimed	2140
What is the estimated volume (in cubic yards) that will be reclaimed	317
What is the estimated surface area (in square feet) that will be remediated	2140
What is the estimated volume (in cubic yards) that will be remediated	560

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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**District III**

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**District IV**

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**Energy, Minerals and Natural Resources**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 387482

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	387482
	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 <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 09/26/2024
--	--

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 387482

QUESTIONS (continued)

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  387482
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6  
  
Action 387482

QUESTIONS (continued)

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  387482
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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

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CONDITIONS

Action 387482

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	387482
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Confirmation samples should be collected every 200 ft2. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the report has been reviewed.	10/24/2024



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QUESTIONS

Action 453364

QUESTIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  453364
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2420136803
Incident Name	NAPP2420136803 AVALON UT 657 @ 0
Incident Type	Release Other
Incident Status	Reclamation Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Avalon UT 657
Date Release Discovered	06/28/2024
Surface Owner	Federal

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: Corrosion   Flow Line - Production   Crude Oil   Released: 5 BBL   Recovered: 0 BBL   Lost: 5 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Produced Water   Released: 11 BBL   Recovered: 0 BBL   Lost: 11 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Condensate   Released: 0 BBL   Recovered: 0 BBL   Lost: 0 BBL.
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 453364

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 453364
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 09/26/2024
--	--

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QUESTIONS, Page 3

Action 453364

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  453364
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (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	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	8260
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	27220
GRO+DRO (EPA SW-846 Method 8015M)	23470
BTEX (EPA SW-846 Method 8021B or 8260B)	34
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	09/20/2024
On what date will (or did) the final sampling or liner inspection occur	12/25/2024
On what date will (or was) the remediation complete(d)	12/25/2024
What is the estimated surface area (in square feet) that will be reclaimed	2140
What is the estimated volume (in cubic yards) that will be reclaimed	317
What is the estimated surface area (in square feet) that will be remediated	2140
What is the estimated volume (in cubic yards) that will be remediated	560
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 453364

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  453364
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	No
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Ashley McAfee Email: <a href="mailto:ashley.a.mcafee@exxonmobil.com">ashley.a.mcafee@exxonmobil.com</a> Date: 04/18/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	



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QUESTIONS, Page 5

Action 453364

QUESTIONS (continued)

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  453364
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 453364

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  453364
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	433811
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/27/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2330
What was the total volume (cubic yards) remediated	460
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	2330
What was the total volume (in cubic yards) reclaimed	350
Summarize any additional remediation activities not included by answers (above)	Excavation activities were conducted at the Site in accordance with the Work Plan to address the June 2024 release of crude oil and produced water. Laboratory analytical results for all final excavation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. The excavation was backfilled with material purchased locally and the Site recontoured to match pre-existing site conditions
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Ashley McAfee Email: ashley.a.mcafee@exxonmobil.com Date: 04/18/2025

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QUESTIONS, Page 7

Action 453364

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  453364
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Reclamation Report</b>	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	2330
What was the total volume of replacement material (in cubic yards) for this site	460
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	05/05/2025
Summarize any additional reclamation activities not included by answers (above)	Following backfill activities, the disturbed area was contoured to match the surrounding topography and the surface was prepared for seeding. Upon confirmation that the excavation was backfilled with non-waste containing material, the disturbed pasture area will be seeded with a certified weed-free seed mix. The BLM Loamy Site Seed Mixture will be used to seed the Site. The seed mix will be applied via drill seeding. The Site will be monitored for vegetation growth to ensure that reclamation activities were successful.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Ashley McAfee Email: <a href="mailto:ashley.a.mcafee@exxonmobil.com">ashley.a.mcafee@exxonmobil.com</a> Date: 04/18/2025

Sante Fe Main Office  
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General Information  
Phone: (505) 629-6116

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<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 8

Action 453364

QUESTIONS (continued)

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  453364
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

<b>Revegetation Report</b>	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	



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CONDITIONS

Action 453364

CONDITIONS

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	Action Number:  453364
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2420136803 AVALON UT 657, thank you. This Remediation Closure Report is approved.	5/16/2025