

September 24, 2024

New Mexico Energy Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request Remuda 100 Battery Incident Number nAPP2418050972 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document site assessment, excavation, and soil sampling activities at the Remuda 100 Battery (Site). The purpose of the site assessment and soil sampling activities was to assess the presence or absence of impacts to soil following a release of produced water. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing delineation and excavation activities that have occurred and requesting no further action for Incident Number nAPP2418050972.

SITE DESCRIPTION AND RELEASE SUMMARY

The release was initially reported at the incorrect location but following a review of initial release records, internal documents, and personnel communications, it was confirmed the release is located on the Remuda 100 Battery facility pad. The Site is located in Unit E, Section 25, Township 23 South, Range 29 East, in Eddy County, New Mexico (32.276985°, -103.942892°) and is associated with oil and gas exploration and production operations on state land managed by the New Mexico State Land Office (SLO).

On June 26, 2024, a corrosion of a pipeline resulted in the release of approximately 7 barrels (bbls) of produced water onto the surface of the pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 2 bbls of released fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on an Initial C-141 Application (C-141) and notification of release (NOR) on June 28, 2024. The release was assigned Incident Number nAPP2418050972.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. In January 2021, a soil boring permitted by New Mexico Office of the State Engineer (C-04994) was completed approximately 0.32 miles southeast of the Site utilizing hollow stem auger method. Soil boring C-04994 was drilled to

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a depth of 105 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The temporary well was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 105 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record & Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 215 feet northeast of the Site based on the NMOCD Oil and Gas Map. Because the significant watercourse appeared in online databases to flow through the well pad and adjacent well pad (Figure 2), Ensolum personnel conducted a field investigation to confirm the presence or absence of a potentially significant watercourse for a previously approved *Deferral Request* at the same Site. The approved *Deferral Request* for Incident Number nAPP2226346738 documents the watercourse survey that was completed on November 22, 2022 to confirm the feature complies with the definition of a significant watercourse per Subsection P of 19.15.17.7 NMAC. Ensolum was able to confirm an intermittent dry wash with an established bed and bank located approximately 440 feet to the North of the Site, but not within 300 feet of the Site. More detailed results and photographic evidence are provided in Figure 2. Further details on the approval can be found on the OCD portal for Incident Number nAPP2226346738.

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).

Based on the results of the Site Characterization, the following NMOCD Table 1 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

DELINEATION AND EXCAVATION ACTIVITIES

On July 9, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 3. On July 18 and 19, 2024, Ensolum personnel returned to the Site to oversee delineation and excavation activities. Five delineation soil samples (SS01 through SS05) were collected at a depth of 0.5 feet bgs outside the release extent to assess the lateral extent of the release. Three boreholes (BH01 through BH03) were advanced via hand auger within the release extent to assess the vertical extent of the release. Delineation soil samples were collected at depths ranging from 0.5 feet bgs to 3 feet bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The delineation soil sample locations are depicted on

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Figure 3. Photographic documentation was collected, and a Photographic Log is included in Appendix B.

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 constituents of concern (COC): 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.

Impacted soil was then excavated from the release area as indicated by visible staining and field screening activities. Excavation activities were performed using hand shovels. To direct excavation activities, Ensolum personnel field screened soil for VOCs and chlorides. The excavation occurred on the well pad near production equipment and XTO safety policy restricts soil disturbing activities within a 2-foot radius of any active production equipment. The surface surrounding the production equipment that was unsafe to excavate was scraped with hand shovels. Following removal of impacted soil to the maximum extent possible, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Excavation soil samples FS01 through FS07 were collected from the floor of the excavation at depth of 0.5 feet bgs. Excavation sidewall soil samples SW01 through SW07 were collected from the sidewalls of the excavation at depths ranging from ground surface to 0.5 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures described above at Cardinal in Hobbs, New Mexico. The excavation extent and excavation soil sample locations are depicted on Figure 4.

The final excavation extent measured approximately 92 square feet. A total of approximately 2 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Landfill Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for assessment soil samples SS01 through SS05 collected at 0.5 feet bgs indicated the COC concentrations were compliant with Site Closure Criteria and the strictest Table I Closure Criteria, successfully defining the lateral extent of the release. Delineation soil samples BH01 through BH03 collected at 0.5 feet bgs indicated the COC concentrations were compliant with Site Closure Criteria but exceeded the strictest Table I Closure Criteria for chloride concentrations. Delineation soil sample BH02 at terminal depth of 1-foot bgs indicated all COCs were compliant with Site Closure Criteria but exceeded the strictest Table I Closure Criteria for chloride. Delineation soil sample BH03 at terminal depth of 3 feet bgs indicated all COCs were compliant with the Site Closure Criteria and the strictest Table 1 Closure Criteria, successfully defining the vertical extent of the release.

Laboratory analytical results for all excavation floor soil samples, FS01 through FS07, indicated all COC concentrations were compliant with Site Closure Criteria. Excavation sidewall soil samples SW01 and SW07 were in compliance with Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included in Appendix D.

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CLOSURE REQUEST

Delineation and excavation activities were conducted at the Site to address the June 26, 2024, release of produced water. Laboratory analytical results for the confirmation soil samples, collected from the final excavation extent, indicated that all COCs were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Laboratory analytical results indicate approximately 120 cubic yards of waste-containing soil, assuming a maximum depth of 3 feet bgs as indicated by BH03C remain immediately adjacent to and underneath active production equipment. Final reclamation of the remaining waste-containing soil exceeding the strictest Table I Closure Criteria in the top 4 feet will occur during the final abandonment of the well pad or major construction, whichever comes first.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2418050972.

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

Sincerely,

Ensolum, LLC

Tought thank

Tracy Hillard Staff Engineer Ashley L. Ager, M.S., P.G

Ashley L. Ager

Principal

cc: Amy Ruth, XTO

Amanda Garcia, XTO

SLO

Appendices:

Figure 1 Site Receptor Map Figure 2 Watercourse Survey

Figure 3 Delineation Soil Sample Locations
Figure 4 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

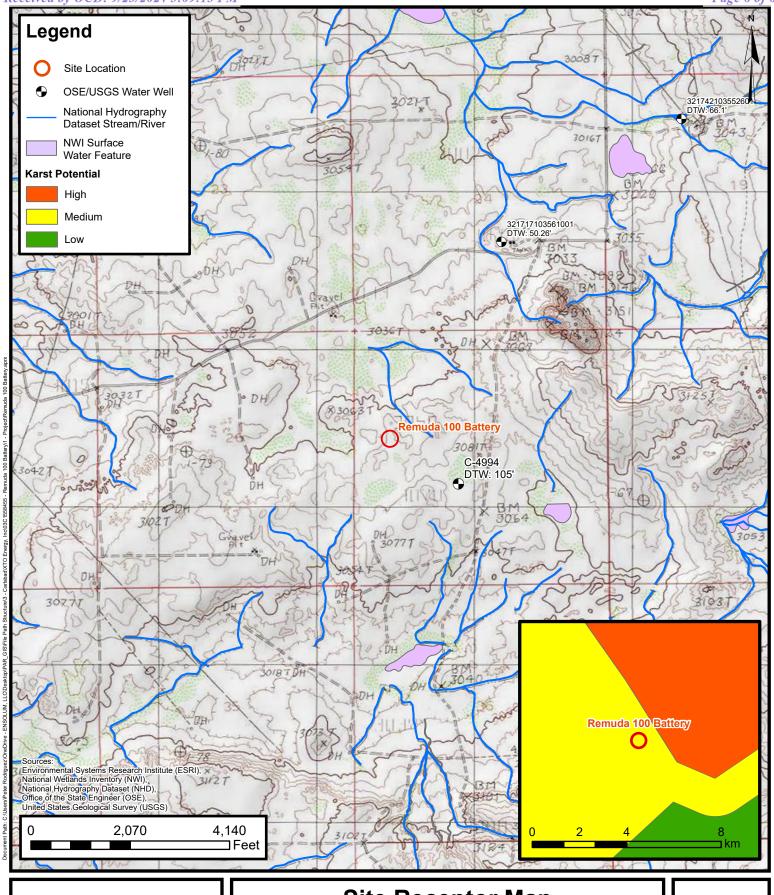
Appendix B Photographic Log

Appendix C Lithologic / Soil Sampling Logs

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES





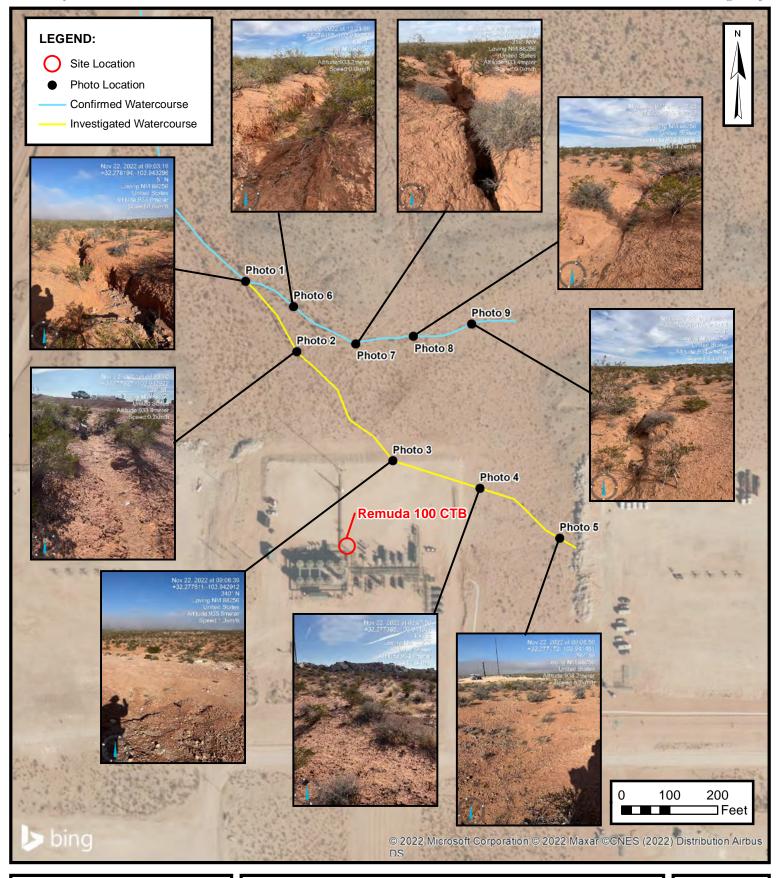
Site Receptor Map

XTO Energy, Inc Remuda 100 Battery Incident Number: NAPP2418050972

Unit E , Sec 25, T23S, R29E

Eddy County, New Mexico

FIGURE

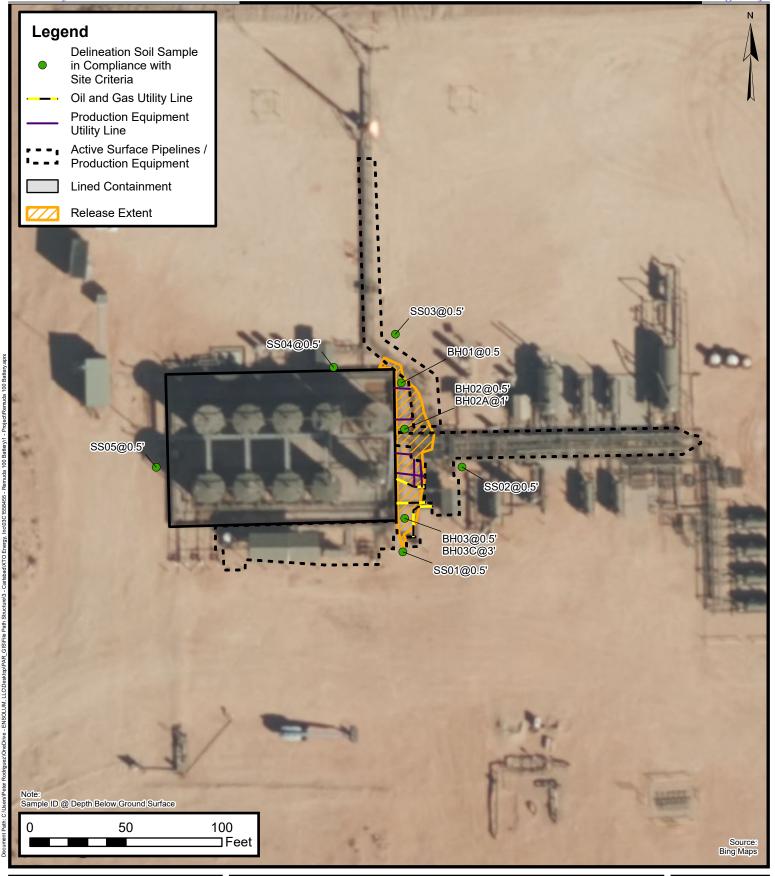




WATERCOURSE SURVEY

XTO Energy, Inc Remuda 100 Battery Incident Number: NAPP2418050972 Unit E , Sec 25, T23S, R29E Eddy County, New Mexico FIGURE

2



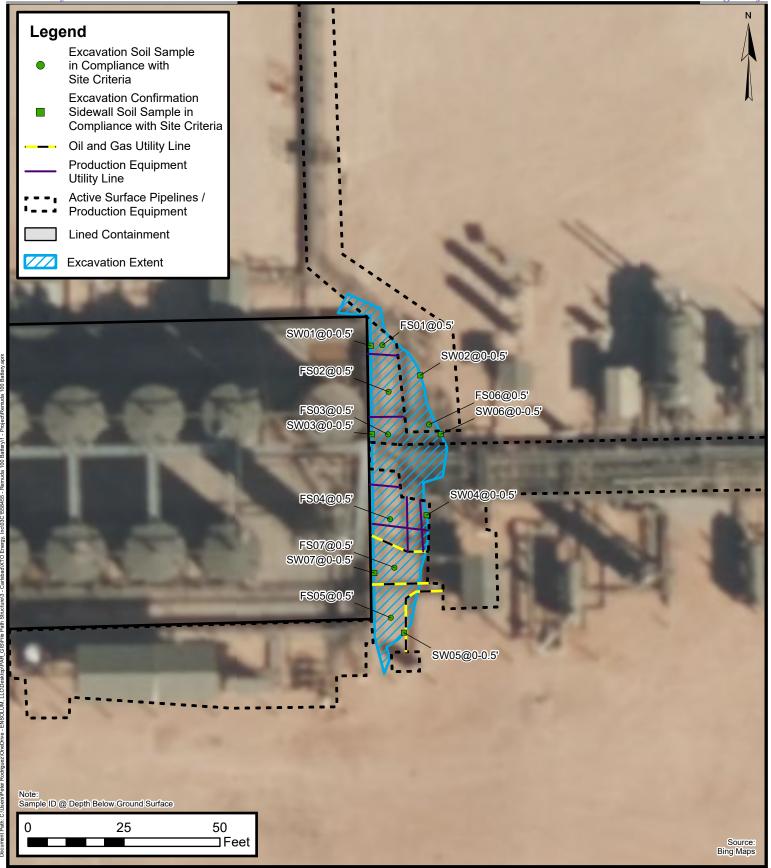


Delineation Soil Sample Locations

XTO Energy, Inc Remuda 100 Battery

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Unit E, Sec 25, T23S, R29E Eddy County, New Mexico FIGURE 3





Excavation Soil Sample Locations

XTO Energy, Inc Remuda 100 Battery

Incident Number: NAPP2418050972

Unit E , Sec 25, T23S, R29E Eddy County, New Mexico FIGURE **4**



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Remuda 100 Battery 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 C	Closure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delin	eation Soil Sam	ples				
SS01	07/19/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	07/19/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS03	07/19/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	576
SS04	07/19/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SS05	07/19/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
BH01	07/18/2024	0.5	<0.050	< 0.300	<10.0	24.4	<10.0	24.4	24.4	11,800
BH02	07/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	13,600
BH02A	07/18/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,600
BH03	07/18/2024	0.5	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,600
BH03C	07/18/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
				Confir	mation Soil Sar	nples				
FS01	07/19/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	12,600
FS02	07/19/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,200
FS03	07/19/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,200
FS04	07/19/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,930
FS05	07/19/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	576
FS06	07/19/2024	0.5	<0.050	<0.300	<10.0	19.8	<10.0	19.8	19.8	704
FS07	08/09/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,120
SW01	08/09/2024	0-0.5	<0.050	<0.300	<10.0	10.7	<10.0	10.7	10.7	15,800
SW02	08/09/2024	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	18,000
SW03	08/09/2024	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	12,200

Ensolum 1 of 2



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Remuda 100 Battery 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 CI	osure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
SW04	08/09/2024	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,200
SW05	08/09/2024	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,410
SW06	08/09/2024	0-0.5	<0.050	<0.300	<10.0	354	106	354	460	544
SW07	08/09/2024	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	18,800

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

	//	\)	F	WS 508 West :	SP USA	Street		BH or PH Name: BH01 (C-04494) Site Name:	Date: 11/18/2020, 12/02/20, 01/05/2021 Remuda North 25 Observation Well
				Car	Isbad, Ne	w Mexico	88220		RP or Incident Numbe	Vernada Nortii 23 Observation vveii
									LTE Job Number:	TE012919039
1 = 1/1 =		LITH	OLOG	SIC / SOIL	Field Scre		G		Logged By BB, LAD, FS Hole Diameter:	Method: Hollow Stem Auger, sonic
Lat/Lo	rig.				rieid Scie	ening.			6.25", 4.25"	Total Depth: 105'
Comm		s only. No	field s	creenings: D	ry hole		l .,	ı		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithol	ogy/Remarks
D			N		1	1	SP-SC			
					- - -	2			ND, dry, brown, poorly ots, no stain, no odor	y graded, fine grain, Clay (10% clay),
D			N		- - -	4 5	CCHE			brown, poorly graded, very fine - fine ebbles, no stain, no odor
					- - -	6 7				n-tan, poorly consolidated, sub- gravel, very silty, gradational
					<u>-</u>	8		9-14' : Al	oundent sub-round ca	liche gravel
					-			14-19' : \$	Some sub-angular cal	iche gravel and pebbles
					_	9			_	caliche gravel and pebbles,
					_	10		moderate	ely consolidated	
					-	11				
					_	12				
					-	13				
					-	14				
					-	15				
					-					
					-	16				
					_	17				
					_	18				
					_	19				
					_	20				
					_	21				
					-	22				
					-	23				
					-	24				
D			N		-	25	CL]		

Lat/Lo	nents: ogy remark	LITH		creenings: D	508 West: Isbad, Ne - SAMPL Field Scre	w Mexico	88220		BH or PH Name: BH01 (C-04494) Site Name: RP or Incident Numbe LTE Job Number: Logged By BB, LAD, FS Hole Diameter: 6.25", 4.25" Lith	3	Date: 11/18/2020, 12/02/20, 01/05/2021 Ida North 25 Observation Well TE012919039 Method: Hollow Stem Auger, sonic Total Depth: 105'
D			Z			26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	CL	consolid no odor, 34-39': 3 features At 39': E 39-42': 1 consolid odor, light 42-45': 3 (>1mm) At 48': \$ 48-56': 48-56	sted, cohesive, trace sharp transition Sub-angular calcium (1-3mm), tan-light be gegin air rotory (4.25 DOLOMETIC LIMES ated, with dissolution to moderate react Some light gray dolometry dolometry and the constant of the	e calicher carborown 5") STONE In feature tion with omite work with new	ith trace dissolution features

									BH or PH Name:	Date:
					WS	P USA			BH01 (C-04494)	11/18/2020. 12/02/2020, 1/5/2021
,				5	08 West	Stevens S	Street		Site Name: Remuda	a North 25 Observation Well
				Car	Isbad, Ne	w Mexico	88220		RP or Incident Number:	
									LTE Job Number: TE0129190	39
		LITH	OLOG	IC / SOII			G		Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic
Lat/Lo	ong:				Field Scre	ening:			Hole Diameter: 6.25", 4.25"	Total Depth: 105'
Comm Litholo	nents: ogic log on	ly, no field	d screer	nings						1.00
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology	//Remarks
D			z z			51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73	DOL CH-S	At 56': I 56-65': calcium (2mm) within di 62': Bro stringer 63-65': gray, po 65-69': high pla pale gre 69-81':	Restarted borehole on 1/s DOLOMITE, dry, light gra crystalline veins (<1mm) vith fine calcite crystalline ssolution features, no sta own-pale yellow coarse cr (2cm) Abundant calcite crystalli orly consolidated MUDSTONE, moist, redo sticity, cohesive, abundar en-gray mottling, no stair GYPSUM with Anhydrite,	ay-gray, well consolidated, some, some dissolution features e, trace orange oxidation staining ain, no odor systalline dolomitic limestone line veins (<1mm), pale greendish brown, poorly consolidated, ant coarse crystalline gypsum, few
D			N		- - - - - - - -	68 69 70 71 72	GYP			

									BH or PH Name:	Date:
			7		WS	SP USA			BH01 (C-04494)	11/18/2020. 12/02/2020, 1/5/2021
'				5	08 West S	Stevens S	Street			da North 25 Observation Well
				Car	Isbad, Ne	w Mexico	88220		RP or Incident Number:	
									LTE Job Number: TE012919	0039
		LITH	DLOG	IC / SOIL	SAMPL	ING LO	G		Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic
Lat/Lo	ong:				Field Scre	ening:			Hole Diameter: 6.25", 4.25"	Total Depth: 105'
Comm	nents: ogic log on	ly, no field	d screei	nings	•					,
		,,					×			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litholog	gy/Remarks
					<u></u>	76 77				e, dry, greenish gray, some pale ystalline, 20% anhydrite, no stain,
					- - -	78 79		consolid		rk reddish brown, moderately hesive, trace coarse crystalline
					- -	80		85-86.5		nsolidated coarse crystalline
D			N		- -	81 82	CH-S	90-98' : 3	Some fine grain brown	sand
					- -	83			ark gray-gray gyspum	
					- -	84		consolid	ated, fine-coarse crysta	
					<u>-</u>	85 86				moist, brown, some gray-dark very fine grain sand, no stain, no
					- -	87		odoi		
					- -	88				
					- -	89				
					-	90				
					- -	92				
					- -	93				
					- -	94 95				
					-	96				
					- -	97				
D			N		- -	98	GYP	_		
D			Ν		- -	99	ML-S	_		

508 West Stevens Street Carlsbad, New Mexico 88220 Site Name: Remuda North 25 RP or Incident Number: LTE Job Number: TE012919039	
LITHOLOGIC / SOIL SAMPLING LOG Lat/Long: Field Screening: Field Screening: Hole Diameter: 6.25", 4.25" Total Diamete	2020. 12/02/2020, 1/5/2021
Lithologic / SOIL SAMPLING LOG Lat/Long: Field Screening: Field	Observation Well
Lithologic log only, no field screenings Sample Depth (ft bgs) Depth (ft bgs) Depth (gray, poorly consolidated, 20% very fine gray, poorly consolidated, 20% very fine gray shale stringer (4cm thick)	
Lat/Long: Field Screening: Hole Diameter: 6.25", 4.25" Total D 105' Comments: Lithologic log only, no field screenings ### Sample Depth (ft bgs) Depth (ft bgs) Depth (ft bgs) Depth (
Comments: Lithologic log only, no field screenings ## Sample Depth (ft bgs) Depth (ft bg	d: Hollow Stem Auger, sonic
Lithologic log only, no field screenings ## Sample Depth (ft bgs) Depth	
101 ML-S 99.5-105': Sandy SILTSTONE, moist, brogray, poorly consolidated, 20% very fine godor 103 At 102': Thin (<1mm) laminated black/grashale stringer (4cm thick)	
gray, poorly consolidated, 20% very fine godor 103 At 102': Thin (<1mm) laminated black/grashale stringer (4cm thick)	
shale stringer (4cm thick)	
	ray well consolidated
D N TD @ 105' bgs (1/5/2021)	
107	
112	
114	
115	
118	
123	
124	



APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc Remuda 100 Battery NAPP2418050972





Photograph: 1 Date: 7/09/2024

Description: Initial soil staining

View: North

Photograph: 2 Date: 7/9/2024

Description: Initial soil staining

View: Northwest





Photograph: 3 Date: 7/18/2024

Description: Final excavation extent

View: North

Photograph: 4 Date: 8/9/2024

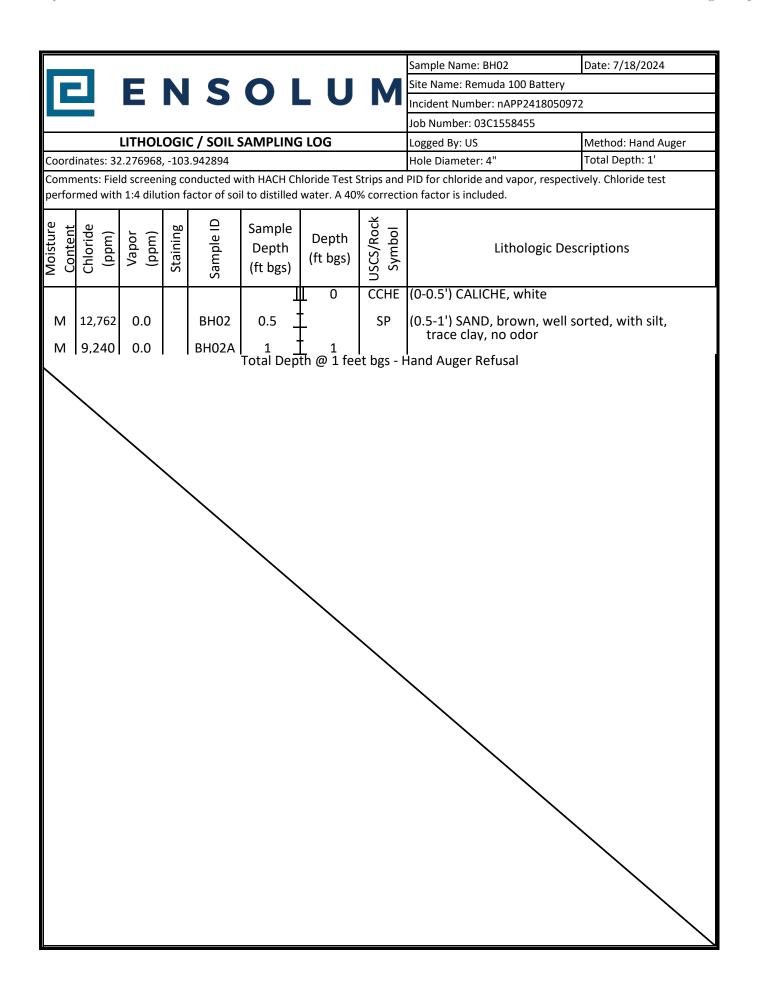
Description: Final excavation extent

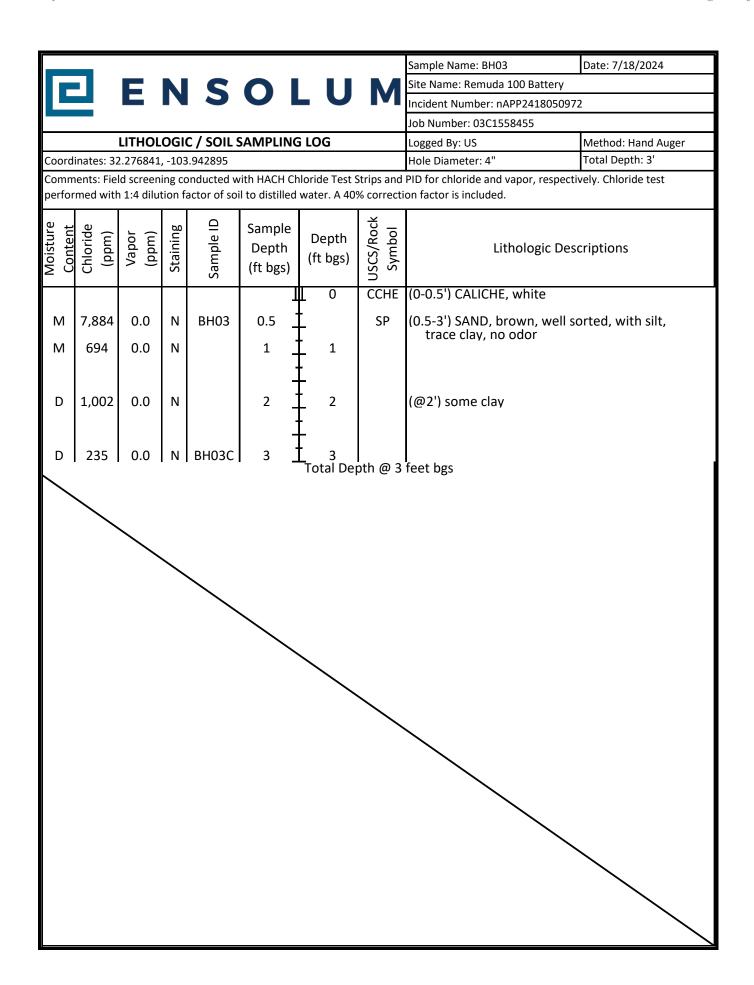
View: Northwest



APPENDIX C

Lithologic Soil Sampling Logs







APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



July 26, 2024

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: REMUDA 100 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/23/24 12:50.

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.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 07/23/2024 Reported: 07/26/2024

Project Name: REMUDA 100 BATTERY

Project Number: 03C1558455

Project Location: XTO 32.276952-103.942877

Sampling Date: 07/19/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS01 0.5' (H244372-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2024	ND	1.99	99.5	2.00	4.09	
Toluene*	<0.050	0.050	07/24/2024	ND	1.96	97.9	2.00	4.00	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	1.98	99.2	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.87	97.9	6.00	3.87	
Total BTEX	<0.300	0.300	07/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12600	16.0	07/24/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2024	ND	212	106	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	180	90.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					
Surrogate: 1-Chlorooctane	115 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	142 9	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

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

Received: 07/23/2024 Sampling Date: 07/19/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: REMUDA 100 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558455 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.276952-103.942877

mg/kg

Sample ID: FS02 0.5' (H244372-02)

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2024	ND	1.99	99.5	2.00	4.09	
Toluene*	<0.050	0.050	07/24/2024	ND	1.96	97.9	2.00	4.00	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	1.98	99.2	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.87	97.9	6.00	3.87	
Total BTEX	<0.300	0.300	07/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10200	16.0	07/24/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2024	ND	212	106	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	180	90.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/23/2024 Reported: 07/26/2024

Project Name: REMUDA 100 BATTERY
Project Number: 03C1558455

Project Location: XTO 32.276952-103.942877

ma/ka

Sampling Date: 07/19/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS03 0.5' (H244372-03)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2024	ND	1.99	99.5	2.00	4.09	
Toluene*	<0.050	0.050	07/24/2024	ND	1.96	97.9	2.00	4.00	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	1.98	99.2	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.87	97.9	6.00	3.87	
Total BTEX	<0.300	0.300	07/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10200	16.0	07/24/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2024	ND	212	106	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	180	90.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					
Surrogate: 1-Chlorooctane	96.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

Analyzed By: 14

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Analytical Results For:

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

Received: 07/23/2024 Sampling Date: 07/19/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: REMUDA 100 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558455 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: XTO 32.276952-103.942877

ma/ka

Sample ID: FS04 0.5' (H244372-04)

RTFY 8021R

Result <0.050 <0.050	Reporting Limit 0.050	Analyzed 07/24/2024	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050		07/24/2024				-		Qualifici
	0.050		ND	1.99	99.5	2.00	4.09	
	0.050	07/24/2024	ND	1.96	97.9	2.00	4.00	
< 0.050	0.050	07/24/2024	ND	1.98	99.2	2.00	4.19	
<0.150	0.150	07/24/2024	ND	5.87	97.9	6.00	3.87	
<0.300	0.300	07/24/2024	ND					
97.3	% 71.5-13	4						
mg/kg		Analyze	d By: CT					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
6930	16.0	07/24/2024	ND	432	108	400	3.64	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	07/24/2024	ND	212	106	200	2.44	
<10.0	10.0	07/24/2024	ND	180	90.2	200	1.48	
<10.0	10.0	07/24/2024	ND					
105 9	% 48.2-13	4						
128	% 49.1-14	8						
	<0.150 <0.300 97.3 mg/ Result 6930 mg/ Result <10.0 <10.0 105 9	<0.150 0.150 <0.300 0.300 97.3 % 71.5-13 mg/ky Result Reporting Limit 6930 16.0 mg/ky Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 <10.0 10.0	<0.150	<0.150 07/24/2024 ND 97.3 % 71.5-134 mg/ky Analyzed By: CT Result Reporting Limit Analyzed Method Blank 6930 16.0 07/24/2024 ND mg/ky Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0 10.0 07/24/2024 ND	<0.150	<0.150	<0.150	<0.150

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Analytical Results For:

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

Received: 07/23/2024 Sampling Date: 07/19/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: **REMUDA 100 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558455 Shalyn Rodriguez

Project Location: XTO 32.276952-103.942877

Sample ID: FS05 0.5' (H244372-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2024	ND	1.99	99.5	2.00	4.09	
Toluene*	<0.050	0.050	07/24/2024	ND	1.96	97.9	2.00	4.00	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	1.98	99.2	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.87	97.9	6.00	3.87	
Total BTEX	<0.300	0.300	07/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	07/24/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2024	ND	212	106	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	180	90.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					
Surrogate: 1-Chlorooctane	115 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/23/2024 Sampling Date: 07/19/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: REMUDA 100 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558455 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: XTO 32.276952-103.942877

ma/ka

Sample ID: FS06 0.5' (H244372-06)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2024	ND	1.99	99.5	2.00	4.09	
Toluene*	<0.050	0.050	07/24/2024	ND	1.96	97.9	2.00	4.00	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	1.98	99.2	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.87	97.9	6.00	3.87	
Total BTEX	<0.300	0.300	07/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	07/24/2024	ND	432	108	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	07/24/2024	ND	187	93.5	200	1.36	
DRO >C10-C28*	19.8	10.0	07/24/2024	ND	186	93.1	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					
Surrogate: 1-Chlorooctane	124	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/23/2024 Sampling Date: 07/18/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: **REMUDA 100 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558455 Shalyn Rodriguez

Project Location: XTO 32.276952-103.942877

Sample ID: BH01 0.5' (H244372-07)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2024	ND	1.99	99.5	2.00	4.09	
Toluene*	<0.050	0.050	07/24/2024	ND	1.96	97.9	2.00	4.00	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	1.98	99.2	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.87	97.9	6.00	3.87	
Total BTEX	<0.300	0.300	07/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	07/24/2024	ND	432	108	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	07/24/2024	ND	187	93.5	200	1.36	
DRO >C10-C28*	24.4	10.0	07/24/2024	ND	186	93.1	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					
Surrogate: 1-Chlorooctane	109 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/23/2024 Sampling Date: 07/18/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: REMUDA 100 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558455 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: XTO 32.276952-103.942877

ma/ka

Sample ID: BH02 0.5' (H244372-08)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2024	ND	1.99	99.5	2.00	4.09	
Toluene*	<0.050	0.050	07/24/2024	ND	1.96	97.9	2.00	4.00	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	1.98	99.2	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.87	97.9	6.00	3.87	
Total BTEX	<0.300	0.300	07/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	07/24/2024	ND	432	108	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	07/24/2024	ND	187	93.5	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	186	93.1	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					
Surrogate: 1-Chlorooctane	124 %	48.2-13	4						
Surrogate: 1-Chlorooctadecane	128 9	% 49.1-14	8						

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Celey D. Kreene



Analytical Results For:

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

Received: 07/23/2024 Sampling Date: 07/18/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: REMUDA 100 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558455 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: XTO 32.276952-103.942877

ma/ka

Sample ID: BH02A 1' (H244372-09)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2024	ND	1.98	99.1	2.00	3.35	
Toluene*	<0.050	0.050	07/24/2024	ND	1.94	96.8	2.00	2.97	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	2.03	101	2.00	2.89	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.95	99.2	6.00	2.96	
Total BTEX	<0.300	0.300	07/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	07/24/2024	ND	432	108	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	07/24/2024	ND	187	93.5	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	186	93.1	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					
Surrogate: 1-Chlorooctane	98.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/23/2024 Sampling Date: 07/18/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: REMUDA 100 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558455 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.276952-103.942877

mg/kg

Sample ID: BH03 0.5' (H244372-10)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2024	ND	1.98	99.1	2.00	3.35	
Toluene*	<0.050	0.050	07/24/2024	ND	1.94	96.8	2.00	2.97	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	2.03	101	2.00	2.89	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.95	99.2	6.00	2.96	
Total BTEX	<0.300	0.300	07/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	gate: 4-Bromofluorobenzene (PID 96.0 % 71.5-1		4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8600	16.0	07/24/2024	ND	432	108	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	07/24/2024	ND	187	93.5	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	186	93.1	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/23/2024 Sampling Date: 07/19/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: REMUDA 100 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558455 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.276952-103.942877

mg/kg

Sample ID: BH03C 3' (H244372-11)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2024	ND	1.98	99.1	2.00	3.35	
Toluene*	<0.050	0.050	07/24/2024	ND	1.94	96.8	2.00	2.97	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	2.03	101	2.00	2.89	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.95	99.2	6.00	2.96	
Total BTEX	<0.300	0.300	07/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/24/2024	ND	432	108	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	07/24/2024	ND	187	93.5	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	186	93.1	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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Analytical Results For:

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

 Received:
 07/23/2024
 Sampling Date:
 07/19/2024

 Reported:
 07/26/2024
 Sampling Type:
 Soil

Project Name: REMUDA 100 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558455 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.276952-103.942877

Sample ID: SS01 0.5' (H244372-12)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2024	ND	1.98	99.1	2.00	3.35	
Toluene*	<0.050	0.050	07/24/2024	ND	1.94	96.8	2.00	2.97	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	2.03	101	2.00	2.89	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.95	99.2	6.00	2.96	
Total BTEX	<0.300	0.300	07/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/24/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2024	ND	187	93.5	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	186	93.1	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/23/2024 Reported:

07/26/2024 **REMUDA 100 BATTERY**

Project Name: Project Number: 03C1558455

Project Location: XTO 32.276952-103.942877 Sampling Date: 07/19/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: SS02 0.5' (H244372-13)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2024	ND	1.98	99.1	2.00	3.35	
Toluene*	<0.050	0.050	07/24/2024	ND	1.94	96.8	2.00	2.97	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	2.03	101	2.00	2.89	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.95	99.2	6.00	2.96	
Total BTEX	<0.300	0.300	07/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/24/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2024	ND	187	93.5	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	186	93.1	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/23/2024 Sampling Date: 07/19/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: REMUDA 100 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558455 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.276952-103.942877

mg/kg

Sample ID: SS03 0.5' (H244372-14)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2024	ND	1.98	99.1	2.00	3.35	
Toluene*	<0.050	0.050	07/24/2024	ND	1.94	96.8	2.00	2.97	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	2.03	101	2.00	2.89	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.95	99.2	6.00	2.96	
Total BTEX	<0.300	0.300	07/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	07/24/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2024	ND	187	93.5	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	186	93.1	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					
Surrogate: 1-Chlorooctane	126	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/23/2024 Sampling Date: 07/19/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: REMUDA 100 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558455 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.276952-103.942877

mg/kg

Sample ID: SS04 0.5' (H244372-15)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2024	ND	1.98	99.1	2.00	3.35	
Toluene*	<0.050	0.050	07/24/2024	ND	1.94	96.8	2.00	2.97	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	2.03	101	2.00	2.89	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.95	99.2	6.00	2.96	
Total BTEX	<0.300	0.300	07/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/24/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2024	ND	187	93.5	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	186	93.1	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/23/2024 Sampling Date: 07/19/2024

Reported: 07/26/2024 Sampling Type: Soil

Project Name: REMUDA 100 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558455 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.276952-103.942877

mg/kg

Sample ID: SS05 0.5' (H244372-16)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2024	ND	1.98	99.1	2.00	3.35	
Toluene*	<0.050	0.050	07/24/2024	ND	1.94	96.8	2.00	2.97	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	2.03	101	2.00	2.89	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.95	99.2	6.00	2.96	
Total BTEX	<0.300	0.300	07/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/24/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2024	ND	187	93.5	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	186	93.1	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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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.

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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Celeg D. Freene

Relinquished By:

Times SO Date: Time:

Received By:

thillard@ensolum.com

All Results are emailed. Please provide Email address:

ON O

Add'l Phone #:

REMARKS: Cost Center: 1067601001

Incident #: NAPP2,418050972

43:24

Received By

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp

Sample Condition
Cool Intact
Pes Yes
No No

CHECKED BY:

Turnaround Time:

Standard Rush

Bacteria (only) Sample Condition
Cool Intact Observed Temp.

Yes Yes
No Corrected Temp.

Observed Temp. °C Corrected Temp. °C

hermometer ID #113

Relinquished By

101 East Marland, Hobbs, NM 88240 oratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Send

PPF

frovide to em

Page 19 of 21

	(010) 000-2020 1 77 (010) 000-2410	July 1010) 200 -	110		
Company Name: Ensolum, LLC	nsolum, LLC			BILL TO	ANALYSIS REQUEST
Project Manager: Tracy Hillard	racy Hillard			P.O. #:	
Address: 3122 National Parks Hwy	ational Parks Hw	Ŋ		company: XTO Energy	
city: Carlsbad		State, NM	zip: 88220	Attn: Amy Ruth	
Phone #: 575-937-3906	-3906	Fax #:		Address: 3104 E Green st	
Project #: 03C1558455	58455	Project Owner:	.1	city: Carlsbad	
Project Name: Remuda 100 battery	nuda 100 batter			State:NM Zip: 88220	
Project Location: 32.276952, -103.942877	32.276952, -103.	942877			
Sampler Name: Uriel Santillana	iel Santillana			Fax #:	e
FOR LAB USE ONLY			MATRIX	PRESERV. SAMPLING	
Lab I.D.	Sample I.D.	Depth (feet)	G)RAB OR (C)OMP. CONTAINERS GROUNDWATER VASTEWATER OIL OIL	OTHER: CID/BASE: DE / COOL OTHER:	CHIOCI TPH BTE
	FS01	0.5	1 ×	1 h2/61/t X	× × ×
e e	F502				
W	F503			5251	
4	FSOY			1513	
ν·	F505			1515	
e	£506	<	4	5451 A	\

Relinquished By:

Date:

Received By:

Time:

Time: 1250

73324

Received By:

Verbal Result: ☐ Yes ☐ No Add'I Phone #:
All Results are emailed. Please provide Email address:

REMARKS: Cost Center: 1067601001

Incident #: NAPP2418050972

thillard@ensolum.com

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed

Relinquished By:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Ensolum, LLC	Ensolum, LLC			BILL TO	ANALYSIS REQUEST
Project Manager: Tracy Hillard	Tracy Hillard			P.O. #:	
Address: 3122	Address: 3122 National Parks Hwy	Ŋ		company: XTO Energy	
city: Carlsbad		State NM	Zip: 88220	Attn: Amy Ruth	
Phone #: 575-937-3906	37-3906	Fax #:		Address: 3104 E Green st	
Project #: 03C1558455	558455	Project Owner:		city: Carlsbad	
Project Name: R	Project Name: Remuda 100 battery	У		State:NM Zip: 88220	
Project Location	Project Location: 32.276952, -103.942877	942877			
Sampler Name: Uriel Santillana	Jriel Santillana			Fax #:	
FOR LAB USE ONLY			MATRIX	DRESERV SAMPLING	
			٦		X
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OI # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE	OTHER: ACID/BASE: CE/COOL OTHER: DATE	CHloric BTEX TPH
7	SHOT	0,5	2 ×	X	X X X
Q	BH02	0.5'		1000	
9	3H02A	7.		8 0 0 1	
0	BH03	0.5'		1013	
11	BH03C	3,	+	016/2/6/1	
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dillidies of successors arising	out of or related to the performance	of services hereunder by C:	irdinal regardless of whether such claim	arilliaries of successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise	D .

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

Cool Intact
A Yes A Yes
No No Sample Condition

CHECKED BY:

Turnaround Time: Thermometer ID -#443

Standard Rush

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Yes Yes
No Corrected Temp. °C

Corrected Temp. °C

Page 20 of 21

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Company Name: Ensolum, LLC	Ensolum, LLC			BILL TO	ANALYSIS	YSIS REQUEST
Project Manager: Tracy Hillard	Tracy Hillard			P.O. #:		
Address: 3122 N	Address: 3122 National Parks Hwy	lwy		Company: XTO Energy	gy	
city: Carlsbad		State, NM	Zip: 88220	Attn: Amy Ruth		
Phone #: 575-937-3906	7-3906	Fax #:		Address: 3104 E Gre	Green st	
Project #: 03C1558455	558455	Project Owner:	7	city: Carlsbad		
Project Name: Re	Project Name: Remuda 100 battery	ery		State:NM Zip: 88220	20	
Project Location:	Project Location: 32.276952, -103.942877	3.942877				
Sampler Name: Uriel Santillana	riel Santillana			Fax #:		
FOR LAB USE ONLY			MATRIX	ESERV.	SAMPLING	
Lab I.D.	Sample I.D.	Depth (feet)	G)RAB OR (C)OMP. CONTAINERS GROUNDWATER VASTEWATER OIL JULDGE	OTHER: CID/BASE: DE/COOL OTHER:	Chloride BTEX TPH	
Ē	5501	0.5	× × ×	X	316 XXX	
15	5502		_		1429 1 1	
14	5503				1324	
2	h055				1413	
16	5058	+	4	4	1331 4 4 4	
PLEASE NOTE: Liability and D	lamages. Cardinal's liability and	d client's exclusive remedy for a	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim girking whether based in contract of tort, shall be limited to the amount neid by the client for the	or tort, shall be limited to the amount paid	by the client for the	S
analyses. All claims including t service. In no event shall Cardi affiliates or successors arising of	ses. All claims including those for negligence and any of e. In no event shall Cardinal be liable for incidental or co tes or successors arising out of or related to the performa-	ther cause whatsoever shall be onsequental damages, including ance of services hereunder by (analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in witing and received by Cardinal witing the completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of use, or loss of the profits incurred by client, its subsidiaries, stiffling or successors arising out of or related in the performance of services beautiful and another than the performance of services beautiful the performance of services beautiful than the performance of services beautiful than the performance of the	received by Cardinal within 30 days after some of use, or loss of profits incurred by classifications are some of the above stated and the sound of the above stated are	competion of the applicable ent, its subsidiaries,	
Relinquished By:	9	Pate: 123-24	Received By: Received By:	ned	Verbal Result:	laddress:
Relinquished By:		Date:	Received By:		REMARKS: Cost Center: 1067601001	001
Delivered By: (Circ		Time:			dent #: NAPP2418	050972
Delivered by. (Circle Oile)		Observed lemp.	Cool Int	on CHECKED BY:	Standard N	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
FURMI-008 R 3.2 MUMIZ		Corrected lemp. C	□ No □ No	OR	Correction Factor 0.5°C	☐ Nc ☐ No Corrected Temp. °C



August 21, 2024

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: REMUDA 100 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/15/24 13:05.

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.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 08/15/2024 Sampling Date: 08/09/2024

Reported: 08/21/2024 Sampling Type: Soil

Project Name: **REMUDA 100 BATTERY** Sampling Condition: Cool & Intact Project Number: 03C1558455 Sample Received By: Alyssa Parras

Project Location: XTO 32.276952-103.942877

Sample ID: FS 07 0.5' (H244952-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.33	116	2.00	1.45	
Toluene*	<0.050	0.050	08/16/2024	ND	2.14	107	2.00	5.47	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.11	106	2.00	8.58	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.42	107	6.00	9.24	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	08/19/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	194	96.9	200	2.66	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	192	95.8	200	5.07	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 08/15/2024 Sampling Date: 08/09/2024

Reported: 08/21/2024 Sampling Type: Soil

Project Name: REMUDA 100 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558455 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.276952-103.942877

Sample ID: SW 07 0-0.5' (H244952-02)

RTFY 8021R

B1EX 8021B	mg,	кg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.33	116	2.00	1.45	
Toluene*	<0.050	0.050	08/16/2024	ND	2.14	107	2.00	5.47	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.11	106	2.00	8.58	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.42	107	6.00	9.24	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18800	16.0	08/19/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	194	96.9	200	2.66	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	192	95.8	200	5.07	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	99.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 08/15/2024 Sampling Date: 08/09/2024

Reported: 08/21/2024 Sampling Type: Soil

Project Name: REMUDA 100 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558455 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.276952-103.942877

Sample ID: SW 05 0-0.5' (H244952-03)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.33	116	2.00	1.45	
Toluene*	<0.050	0.050	08/16/2024	ND	2.14	107	2.00	5.47	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.11	106	2.00	8.58	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.42	107	6.00	9.24	
Total BTEX	<0.300	0.300	08/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	08/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	194	96.9	200	2.66	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	192	95.8	200	5.07	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	89.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 08/15/2024 Sampling Date: 08/09/2024

Reported: 08/21/2024 Sampling Type: Soil

Project Name: REMUDA 100 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558455 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.276952-103.942877

Sample ID: SW 04 0-0.5' (H244952-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.07	104	2.00	2.84	
Toluene*	<0.050	0.050	08/17/2024	ND	1.98	99.1	2.00	2.26	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	1.97	98.5	2.00	1.54	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	5.84	97.3	6.00	1.46	
Total BTEX	<0.300	0.300	08/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	08/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	194	96.9	200	2.66	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	192	95.8	200	5.07	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.4	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 08/15/2024 Sampling Date: 08/09/2024

Reported: 08/21/2024 Sampling Type: Soil

Project Name: **REMUDA 100 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558455 Alyssa Parras

Project Location: XTO 32.276952-103.942877

Sample ID: SW 01 0-0.5' (H244952-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.07	104	2.00	2.84	
Toluene*	<0.050	0.050	08/17/2024	ND	1.98	99.1	2.00	2.26	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	1.97	98.5	2.00	1.54	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	5.84	97.3	6.00	1.46	
Total BTEX	<0.300	0.300	08/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15800	16.0	08/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	194	96.9	200	2.66	
DRO >C10-C28*	10.7	10.0	08/16/2024	ND	192	95.8	200	5.07	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/15/2024 Sampling Date: 08/09/2024

Reported: 08/21/2024 Sampling Type: Soil

Project Name: **REMUDA 100 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558455 Alyssa Parras

Project Location: XTO 32.276952-103.942877

Sample ID: SW 02 0-0.5' (H244952-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.07	104	2.00	2.84	
Toluene*	<0.050	0.050	08/17/2024	ND	1.98	99.1	2.00	2.26	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	1.97	98.5	2.00	1.54	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	5.84	97.3	6.00	1.46	
Total BTEX	<0.300	0.300	08/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18000	16.0	08/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	194	96.9	200	2.66	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	192	95.8	200	5.07	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/15/2024 Sampling Date: 08/09/2024

Reported: 08/21/2024 Sampling Type: Soil

Project Name: REMUDA 100 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558455 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.276952-103.942877

Sample ID: SW 03 0-0.5' (H244952-07)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.07	104	2.00	2.84	
Toluene*	<0.050	0.050	08/17/2024	ND	1.98	99.1	2.00	2.26	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	1.97	98.5	2.00	1.54	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	5.84	97.3	6.00	1.46	
Total BTEX	<0.300	0.300	08/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	08/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	194	96.9	200	2.66	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	192	95.8	200	5.07	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	118	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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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 whistoever 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 & Keene



Analytical Results For:

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

Received: 08/15/2024 Sampling Date: 08/09/2024

Reported: 08/21/2024 Sampling Type: Soil

Project Name: REMUDA 100 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558455 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.276952-103.942877

Sample ID: SW 06 0-0.5' (H244952-08)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.07	104	2.00	2.84	
Toluene*	<0.050	0.050	08/17/2024	ND	1.98	99.1	2.00	2.26	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	1.97	98.5	2.00	1.54	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	5.84	97.3	6.00	1.46	
Total BTEX	<0.300	0.300	08/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	08/19/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2024	ND	194	96.9	200	2.66	
DRO >C10-C28*	354	10.0	08/16/2024	ND	192	95.8	200	5.07	
EXT DRO >C28-C36	106	10.0	08/16/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

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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Celeg D. Freene

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 Ea (575)

Company Name	Company Name: Ensolum, LLC						
Project Manager:	1			BILL TO	9	AN	ANALYSIS REQUEST
Address: 3122	ional Barks H	1010		P.O. #:			
City: Carlsbad	vacional Pains Hwy	04-4 NIII	!	Company: XTO Energy Inc.	gy Inc.		
Phone #: 575	Phone #: 575-937-3907	Fay #.	CID: 08220				
Project #: 030	55/1855/10	Project Owner: XTO	YTO	п	Green St		
Project Name:	R 100			City: Carisbad			
Project I continue.	15mVac	Beliery		State: NM Zip:88220	20		
Project Location:				Phone #:			
Sampler Name:	Connerwhit	The same		Fax #:			
FOR LAB USE ONLY			P. MATRIX	ESERV.	SAMPLING		
Lab I.D.	Sample I.D.	Depth (feet)	G)RAB OR (C)OMI CONTAINERS GROUNDWATER VASTEWATER GOIL DIL	OTHER: CID/BASE: CE / COOL THER:	BTEX	PH	
	F507	0.5	V	A	9 S 1	- (
12:	LOMS	8,0-0			-		
:0	SMOS	-			925		
7+	HOAAC				330		
7	coms				785		
76	21/02				1000		
0	JOMS				1005		
			~	4	tolo		
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analyses. All claims including service. In no event shall Card affiliates or successors arising affiliates.	ses. All claims including those for negligence and any other se. In no event shall Cardinal be liable for incidental or conse tes or successors arising out of or related to the performance	cause whatsoever shall be do quental damages, including v of services hereunder by Ca		or tort, shall be limited to the amount par received by Cardinal within 30 days after loss of use, or loss of profits incurred by one shaled re-	d by the client for the rompleton of the applicable client, its subsidiaries, asons or otherwise.		
T.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Received By:		Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:	S □ No Add'I	Add'l Phone #: de Email address:
Relinquished By:		Date:	Received By:	0	@enso	@ensolum.com, TMorrissey@ensolum.com	sey@ensolum.com
		Time:			Incident: Cost Center:		
Delivered By: (Circle One)		Observed Temp. °C	+	ON CHECKED BY:	Turnaround Time:		
Sampler - UPS - Bus - Other		us.	Cool Intact Wes Tres		Thermometer ID #413 140	Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes
FURIN-UUD R	37 10/01/7	1	1		ר ה ה		Cles Cles

From: <u>Tacoma Morrissey</u>
To: <u>Wells, Shelly, EMNRD</u>

Subject: [EXTERNAL] RE: NAPP2418050972 REMUDA 100 BATTERY

Date: Tuesday, October 8, 2024 7:51:40 AM

Attachments: image001.png image002.png

image002.png

Photolog- Remuda 100 Battery- Incident Number NAPP2418050972.pdf

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hi Shelly,

Apologies for my delay I am at the NMOGA conference, will you be at the joint committee meeting today? It would be so nice to meet you in person!

I reviewed the report and photolog, and yes, photograph 3 should have had the description of "excavation activities" not final excavation extent. The photo was taken around 10am on July 18, 2024, so this was not the final extent. I've attached an updated photolog. Is there any additional information I can provide?

Thank you for reaching out to clarify!



Tacoma Morrissey

Associate Principal 337-257-8307 Ensolum, LLC

in f 🏋

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Monday, October 7, 2024 8:11 AM

To: Tacoma Morrissey <tmorrissey@ensolum.com> **Subject:** NAPP2418050972 REMUDA 100 BATTERY

[**EXTERNAL EMAIL**]

Hi Tacoma,

I am reviewing the submitted remediation closure report for the following release NAPP2418050972 REMUDA 100 BATTERY and have a question regarding the photos submitted. Photograph 3 in the report says final excavation extent but shows a patch of stained soil. Did the stained soil get removed?

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/



Photographic Log

XTO Energy, Inc Remuda 100 Battery NAPP2418050972





Photograph: 1 Date: 7/09/2024

Description: Initial soil staining

View: North

Photograph: 2 Date: 7/9/2024

Description: Initial soil staining

View: Northwest





Photograph: 3 Date: 7/18/2024

Description: Excavation Activities

View: North

Photograph: 4 Date: 8/9/2024

Description: Final excavation extent

View: Northwest

<u>District I</u> 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 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 385951

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	385951
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites			
Incident ID (n#)	nAPP2418050972		
Incident Name	NAPP2418050972 REMUDA 100 BATTERY @ 0		
Incident Type	Produced Water Release		
Incident Status	Remediation Closure Report Received		

Location of Release Source				
Please answer all the questions in this group.				
Site Name	REMUDA 100 BATTERY			
Date Release Discovered	06/26/2024			
Surface Owner	State			

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Pipeline (Any) Produced Water Released: 7 BBL Recovered: 2 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

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 385951

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	TONS (continued)
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380 Action Number: 385951 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	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.
	niation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative c sted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or
	Name: Caltan Prouin

Title: Environmental Advisor

Date: 09/23/2024

Email: colton.s.brown@exxonmobil.com

I hereby agree and sign off to the above statement

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

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

QUESTIONS, Page 3

Action 385951

QUESTIONS (continued)

ſ	Operator:	OGRID:
	XTO ENERGY, INC	5380
	6401 Holiday Hill Road	Action Number:
١	Midland, TX 79707	385951
		Action Type:
		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)	
Any other fresh water well or spring	Greater than 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between ½ and 1 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Between ½ and 1 (mi.)	
Categorize the risk of this well / site being in a karst geology	Medium	
A 100-year floodplain	Between 1 and 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provide	ed 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 contamir	nation 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, it	n milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	18800	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	460	
GRO+DRO (EPA SW-846 Method 8015M)	354	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes comp which includes the anticipated timelines for beginning and completing the remediation.	pleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date will the remediation commence	07/18/2024	
On what date will (or did) the final sampling or liner inspection occur	08/09/2024	
On what date will (or was) the remediation complete(d)	08/09/2024	
What is the estimated surface area (in square feet) that will be reclaimed	92	
What is the estimated volume (in cubic yards) that will be reclaimed	2	
What is the estimated surface area (in square feet) that will be remediated	92	
What is the estimated volume (in cubic yards) that will be remediated	2	
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	d 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.

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **District II**

Bistrict III

Bistrict 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

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 4

Action 385951

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	385951
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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: 09/23/2024

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.

Released to Imaging: 10/8/2024 9:11:10 AM

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

QUESTIONS, Page 5

Action 385951

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	385951
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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

District I

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**

<u>District IV</u> 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 6

Action 385951

OI	JEST	TONS	(continued)	١
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Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	385951
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	370735	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/09/2024	
What was the (estimated) number of samples that were to be gathered	10	
What was the sampling surface area in square feet	2000	

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	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	92	
What was the total volume (cubic yards) remediated	2	
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	92	
What was the total volume (in cubic yards) reclaimed	2	
Summarize any additional remediation activities not included by answers (above)	Delineation and excavation activities were conducted at the Site to address the June 26, 2024, release of produced water. Laboratory analytical results for the confirmation soil samples, collected from the final excavation extent, indicated that all COCs were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions. Final reclamation of the remaining impacted soil that met Site Closure Criteria but exceeds the strictest Table 1 Closure Criteria will occur during the final reclamation of the well pad or major construction, whichever comes first.	

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Name: Colton Brown
Title: Environmental Advisor
Email: colton.s.brown@exxonmobil.com
Date: 09/23/2024

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

QUESTIONS, Page 7

Action 385951

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	385951
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 385951

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	385951
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created E	y Condition	Condition Date
scwells	Remediation closure approved. OCD concurs that a defined bed and bank of a watercourse is not located within 300 feet of any part of this release.	10/8/2024