



November 25, 2024

New Mexico Oil Conservation Division

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

**Re: Closure Request
PLU 28 Big Sinks West Battery
Incident Number nAPP2424734929
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 PLU 28 Big Sinks West Battery (Site). The purpose of the site assessment and soil sampling activities was to assess for 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 remedial activities that have occurred and requesting no further action for Incident Number nAPP2424734929.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit F, Section 28, Township 25 South, Range 31 East, in Eddy County, New Mexico (32.10425, -103.78592) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On August 27, 2024, corrosion on a produced water surface pipeline resulted in the release of approximately 5 barrels (bbls) of produced water onto the surface of the pad. No released fluids were recovered. XTO submitted a Notification of Release (NOR) and Initial C-141 Application (C-141) on September 3, 2024. The release was assigned Incident Number nAPP2424734929.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring drilled to investigate regional groundwater depth. In March 2021, a soil boring permitted by New Mexico Office of the State Engineer (C-4500) was completed approximately 0.17 miles southeast of the Site utilizing hollow stem auger drilling method. Soil boring C-4500 was drilled to a depth of 110 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 110 feet bgs. The

borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The C-4500 Well Record & Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 4,084 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by potentially unstable geology (medium potential karst designation area). Potential Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES

On August 30, 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 area was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was collected and a photographic log is provided in Appendix B. Based on surficial staining of the release extent area, delineation and excavation activities were warranted.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

Between November 6 and 11, 2024, Ensolum personnel were at the Site to oversee delineation and excavation activities. Delineation potholes PH01 and PH02 were advanced via backhoe to 2 feet and 3 feet bgs, respectively. Both potholes were advanced within the release extent to assess the vertical extent of the release. Soil from the delineation potholes were field screened at depths ranging from 0.5 feet to 3 feet bgs for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation pothole locations were mapped utilizing a handheld GPS system and are depicted on Figure 2.

Impacted soil was excavated from the release area as indicated by visible staining and delineation pothole field screening results. Excavation activities were performed using a trackhoe and transport vehicles. The excavation occurred on the well pad near the production equipment. To direct excavation activities, Ensolum personnel screened soil for VOCs and chloride as described above. Following the removal of impacted soil, 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

XTO Energy, Inc
Closure Request
PLU 28 Big Sinks West Battery



and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS40 were collected from the floor of the excavation at depths ranging from 1-foot to 3 feet bgs. Confirmation sidewall soil samples SW01 through SW10 were collected from the sidewalls of the excavation at depths ranging from ground surface to 3 feet bgs. The excavation extent and confirmation soil sample locations are presented on Figure 3.

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

The final excavation extent measured approximately 7,800 square feet. A total of approximately 800 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the OWL Landfill Service in Jal, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all confirmation soil samples collected indicated that all COC concentrations were compliant with the Closure Criteria and reclamation requirement, confirming the lateral and vertical extents of the release. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment, delineation and excavation activities were conducted at the Site to address the August 27, 2024, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations 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.

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 Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2424734929.

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

Sincerely,
Ensolum, LLC

Handwritten signature of Benjamin J. Belill in black ink.

Benjamin J Belill
Senior Geologist

Handwritten signature of Tacoma Morrissey in black ink.

Tacoma Morrissey
Associate Principal

XTO Energy, Inc
Closure Request
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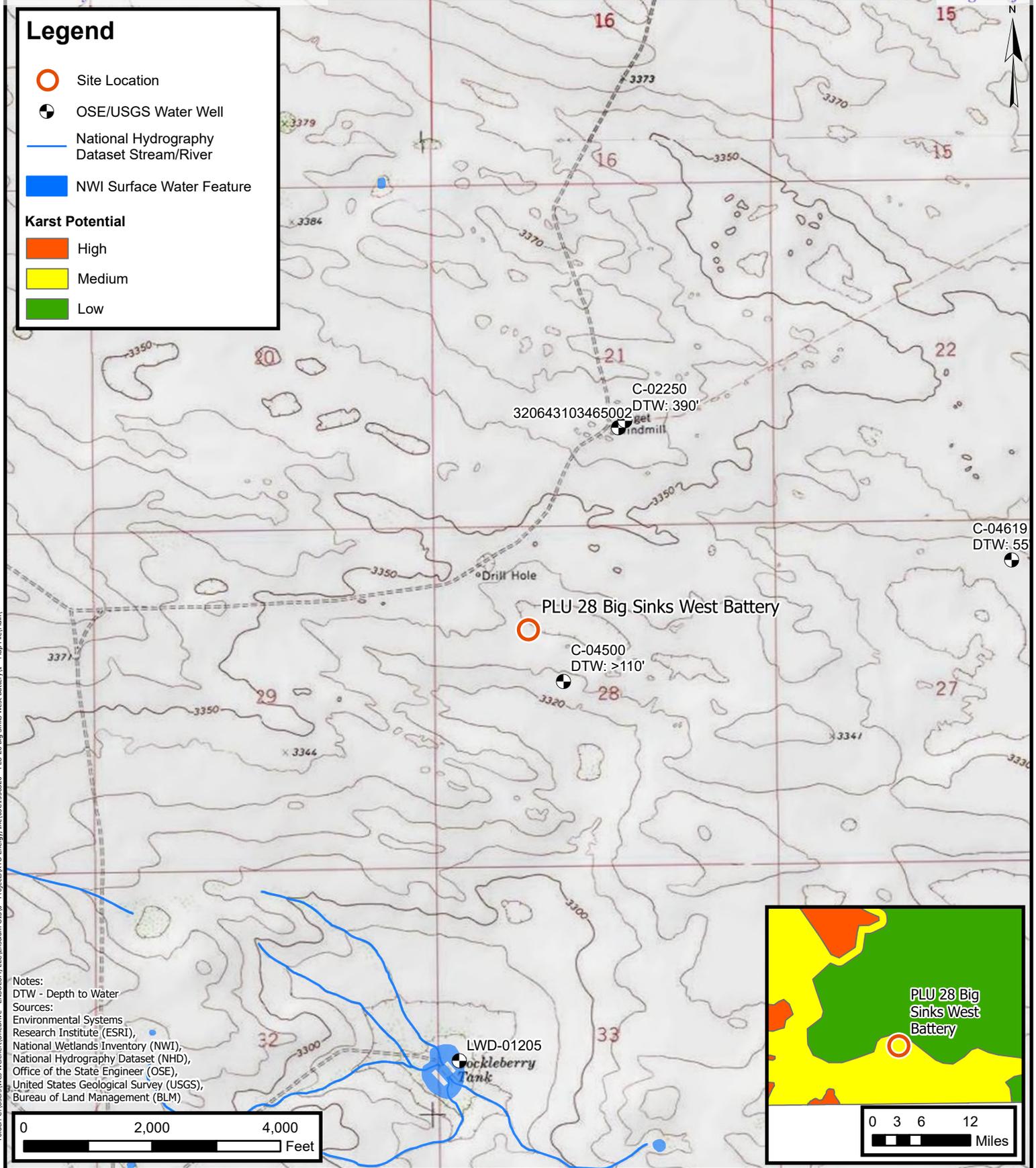
cc: Colton Brown, XTO
Kaylan Dirkx, XTO
BLM

Appendices:

Figure 1 Site Receptor Map
Figure 2 Delineation Site Map
Figure 3 Confirmation 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



Folder: C:\Users\Wes.Weichert\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1558620 - PLU 28 Big Sinks West Battery\1 - Map File\Map1

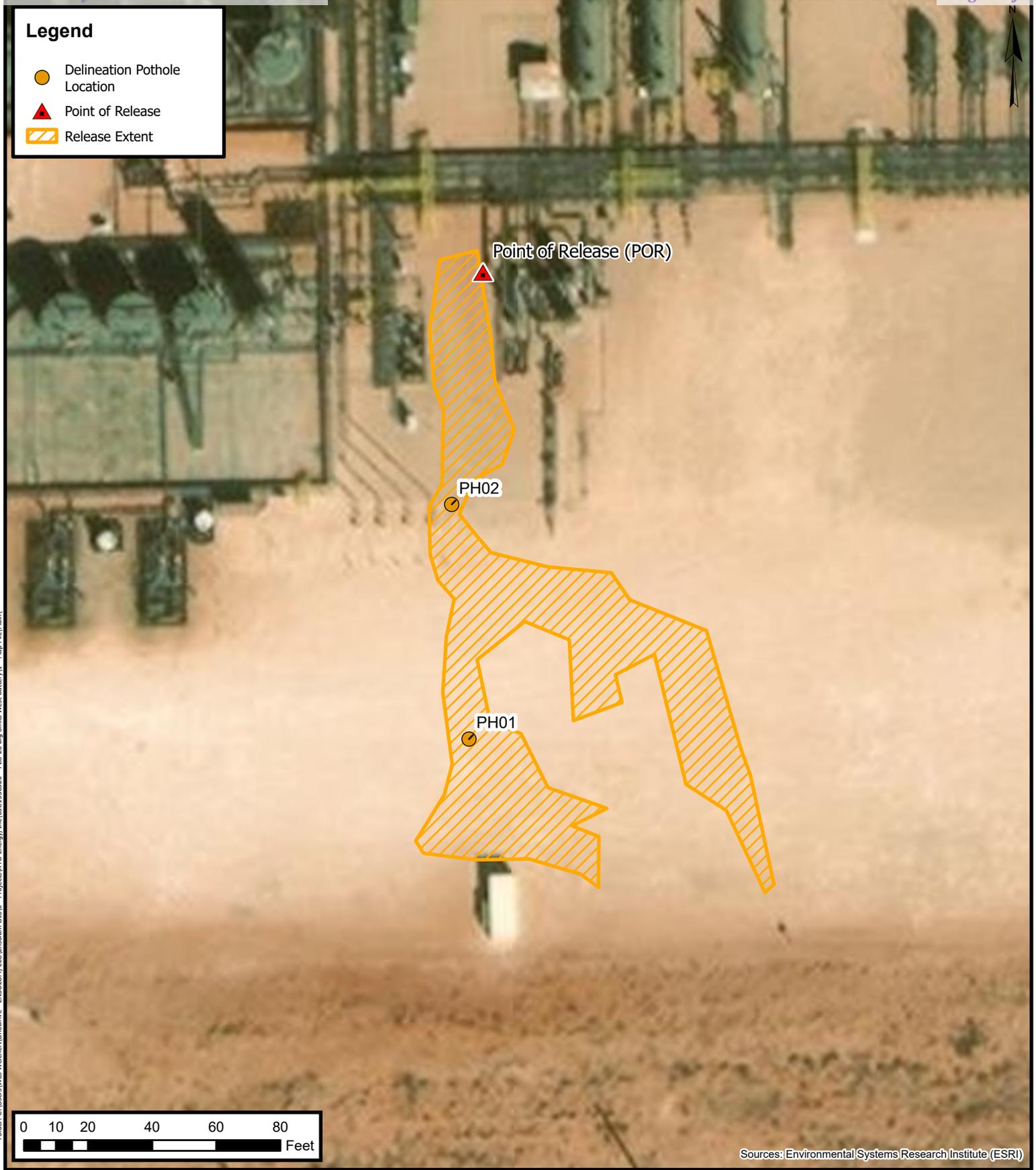


Site Receptor Map
 XTO Energy, Inc.
 PLU 28 Big Sinks West Battery
 Incident Number: nAPP2424734929
 Unit G, Sec 28, T25S, R31E
 Eddy Co, New Mexico, United States

FIGURE
 1

Legend

-  Delineation Pothole Location
-  Point of Release
-  Release Extent



Folder: C:\Users\Wes Weichert\OneDrive - ENSOLUM, LLC\ensolum GIS\0 - Projects\XTO Energy, Inc.\DCI\1558620 - PLU 28 Big Sinks West Battery\1 - Map File\Map1



Sources: Environmental Systems Research Institute (ESRI)

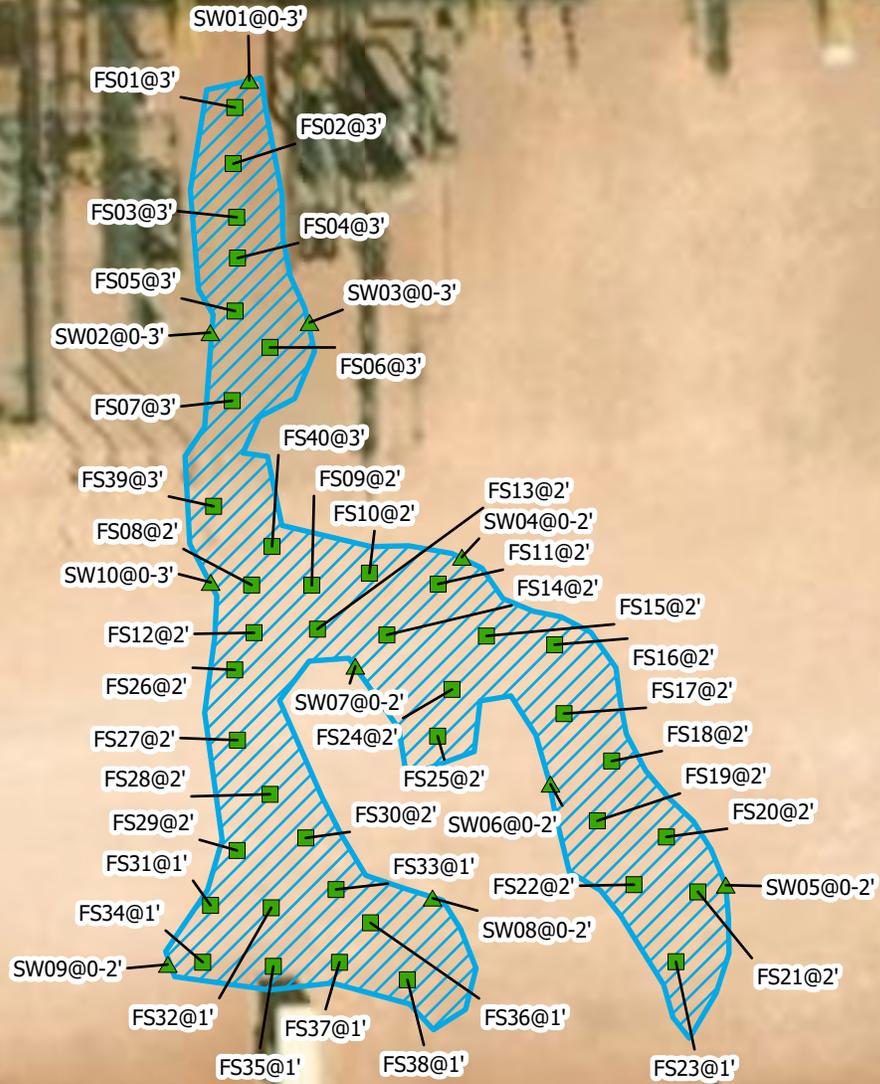


Delineation Site Map
 XTO Energy, Inc.
 PLU 28 Big Sinks West Battery
 Incident Number: nAPP2424734929
 Unit G, Sec 28, T25S, R31E
 Eddy Co, New Mexico, United States

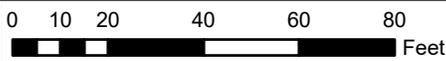
FIGURE
2

Legend

- Excavation Floor Soil Sample Compliant with Closure Criteria
- ▲ Excavation Sidewall Soil Sample Compliant with Closure Criteria
- Excavation Extent



Notes:
 Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Excavation Soil Sample Locations

XTO Energy, Inc.
 PLU 28 Big Sinks West Battery
 Incident Number: nAPP2424734929
 Unit G, Sec 28, T25S, R31E
 Eddy Co, New Mexico, United States

FIGURE

3



TABLES

**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 28 Big Sinks West 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)
NMOCB Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Confirmation Soil Samples										
FS01	11/07/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS02	11/07/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
FS03	11/07/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS04	11/07/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
FS05	11/07/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS06	11/07/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
FS07	11/07/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
FS08	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
FS09	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS10	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS11	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS12	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS13	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS14	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS15	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS16	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
FS17	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
FS18	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS19	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS20	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS21	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS22	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
FS23	11/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
FS24	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
FS25	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS26	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
FS27	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
FS28	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
FS29	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
FS30	11/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
FS31	11/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS32	11/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
FS33	11/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16

**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 28 Big Sinks West 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 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS34	11/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS35	11/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
FS36	11/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
FS37	11/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
FS38	11/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS39	11/11/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS40	11/11/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW01	11/07/2024	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW02	11/07/2024	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW03	11/07/2024	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW04	11/11/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SW05	11/11/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SW06	11/11/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
SW07	11/11/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SW08	11/11/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
SW09	11/11/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
SW10	11/11/2024	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160

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



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4500			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	LATITUDE	DEGREES 32	MINUTES 6	SECONDS 6.96	N	• ACCURACY REQUIRED: ONE TENTH OF A SECOND • DATUM REQUIRED: WGS 84	
		LONGITUDE	103	47	6.75	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NW Sec. 28 T25S R31E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 03/24/2021		DRILLING ENDED 03/24/2021		DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 110	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	110	±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

OSE DTI MAY 5 2021 10:41:00

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/17)			
FILE NO.	C-4500	POD NO.	1	TRN NO.	682534
LOCATION	Exp 25S.31E.28.144	WELL TAG ID NO.	—	PAGE 1 OF 2	



APPENDIX B

Photographic Log



Photographic Log
XTO Energy, Inc
PLU 28 Big Sinks West Battery
Incident Number nAPP2424734929



Photograph: 1 Date: 8/30/2024
Description: Site assessment activities, release area.
View: South

Photograph: 2 Date: 11/6/2024
Description: Release area before excavation.
View: Northwest



Photograph: 3 Date: 11/11/2024
Description: Final excavation extent.
View: North

Photograph: 4 Date: 11/11/2024
Description: Final excavation extent.
View: South



APPENDIX C

Lithologic Soil Sampling Logs

							Sample Name: PH01		Date: 11/6/2024	
							Site Name: PLU 28 Big Sinks West Battery			
							Incident Number: Napp2424734929			
							Job Number: 03C1558520			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: JB		Method: Backhoe	
Coordinates: 32.103760, -103.786500							Hole Diameter: 1.5'		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A +40% correction factor added to all chloride calculations.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
M			Y			0	CCHE	0-0.5', CALICHE, tan, moist, light brown staining, no odor, fill.		
M	2,587	0.0	N		0.5		SP	0.5'-2', SAND, reddish-brown, moist, poorly graded, fine grained, trace clay, no stain, no odor.		
M	1,293	0.0	N		1	1				
M	235	0.0	N		2	2	CCHE	@2' CALICHE, tan, moist, moderately consolidated, some small sub-angular gravel, no stain, no odor.		
						3	TD	Total depth @ 2 feet bgs.		
						4				
						5				
						6				
						7				
						8				
						9				
						10				
						11				
						12				

					Sample Name: PH02		Date: 11/6/2024			
					Site Name: PLU 28 Big Sinks West Battery					
					Incident Number: Napp2424734929					
					Job Number: 03C1558520					
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: JB		Method: Backhoe			
Coordinates: 32.103966, -103.786518					Hole Diameter: 1.5'		Total Depth: 3'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A +40% correction factor added to all chloride calculations.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
M			Y			0	CCHE	0-0.5', CALICHE, tan, moist, light brown staining, no odor, fill.		
M	2,772	0.0	N		0.5		SP	0.5'-2', SAND, reddish-brown, moist, poorly graded, fine grained, trace clay, no stain, no odor.		
M	2,587	0.0	N		1	1				
M	2,419	0.0	N		2	2	CCHE	@2' CALICHE, tan, moist, moderately consolidated, some small sub-angular gravel, no stain, no odor.		
M	1,103	0.0	N		3	3	TD	Total depth @ 3 feet bgs (equipment refusal)		
						4				
						5				
						6				
						7				
						8				
						9				
						10				
						11				
						12				



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

November 12, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 28 BIG SINKS WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/11/24 12:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/11/2024	Sampling Date:	11/07/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: SW 01 0-3 (H246852-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2024	ND	2.15	107	2.00	3.52	
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84	
Total BTEX	<0.300	0.300	11/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/12/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	186	92.9	200	0.959	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	179	89.4	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/11/2024	Sampling Date:	11/07/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: SW 02 0-3 (H246852-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2024	ND	2.15	107	2.00	3.52	
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84	
Total BTEX	<0.300	0.300	11/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/12/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	186	92.9	200	0.959	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	179	89.4	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/11/2024	Sampling Date:	11/07/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: SW 03 0-3 (H246852-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2024	ND	2.15	107	2.00	3.52	
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84	
Total BTEX	<0.300	0.300	11/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/12/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2024	ND	186	92.9	200	0.959	
DRO >C10-C28*	<10.0	10.0	11/11/2024	ND	179	89.4	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	11/11/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/11/2024	Sampling Date:	11/07/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 01 3 (H246852-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2024	ND	2.15	107	2.00	3.52		
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84		
Total BTEX	<0.300	0.300	11/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/12/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	186	92.9	200	0.959		
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	179	89.4	200	1.56		
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND						

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/11/2024	Sampling Date:	11/07/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 02 3 (H246852-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2024	ND	2.15	107	2.00	3.52		
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84		
Total BTEX	<0.300	0.300	11/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/12/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	186	92.9	200	0.959		
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	179	89.4	200	1.56		
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND						

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/11/2024	Sampling Date:	11/07/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 03 3 (H246852-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2024	ND	2.15	107	2.00	3.52		
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84		
Total BTEX	<0.300	0.300	11/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/12/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	186	92.9	200	0.959		
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	179	89.4	200	1.56		
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND						

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/11/2024	Sampling Date:	11/07/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 04 3 (H246852-07)

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	11/11/2024	ND	2.15	107	2.00	3.52	
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84	
Total BTEX	<0.300	0.300	11/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/12/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	186	92.9	200	0.959	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	179	89.4	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/11/2024	Sampling Date:	11/07/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 05 3 (H246852-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2024	ND	2.15	107	2.00	3.52		
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84		
Total BTEX	<0.300	0.300	11/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/12/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	186	92.9	200	0.959		
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	179	89.4	200	1.56		
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND						

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/11/2024	Sampling Date:	11/07/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 06 3 (H246852-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2024	ND	2.15	107	2.00	3.52	
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68	
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90	
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84	
Total BTEX	<0.300	0.300	11/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/12/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	186	92.9	200	0.959	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	179	89.4	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/11/2024	Sampling Date:	11/07/2024
Reported:	11/12/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 07 3 (H246852-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2024	ND	2.15	107	2.00	3.52		
Toluene*	<0.050	0.050	11/11/2024	ND	2.07	104	2.00	3.68		
Ethylbenzene*	<0.050	0.050	11/11/2024	ND	2.08	104	2.00	3.90		
Total Xylenes*	<0.150	0.150	11/11/2024	ND	6.19	103	6.00	3.84		
Total BTEX	<0.300	0.300	11/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/12/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	186	92.9	200	0.959		
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	179	89.4	200	1.56		
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

November 13, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 28 BIG SINKS WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/12/24 14:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: SW 04 0-2' (H246880-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.00	100	2.00	4.01	
Toluene*	<0.050	0.050	11/12/2024	ND	1.93	96.6	2.00	3.95	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	1.94	97.1	2.00	3.34	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.76	95.9	6.00	3.33	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: SW 05 0-2' (H246880-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	2.00	100	2.00	4.01		
Toluene*	<0.050	0.050	11/12/2024	ND	1.93	96.6	2.00	3.95		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	1.94	97.1	2.00	3.34		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.76	95.9	6.00	3.33		
Total BTEX	<0.300	0.300	11/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/13/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8		
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7		
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: SW 06 0-2' (H246880-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: SW 07 0-2' (H246880-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04		
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71		
Total BTEX	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/13/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8		
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7		
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: SW 08 0-2' (H246880-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04		
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71		
Total BTEX	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/13/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8		
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7		
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND						

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: SW 09 0-2' (H246880-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04		
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71		
Total BTEX	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/13/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8		
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7		
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND						

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: SW 10 0-3' (H246880-07)

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	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 08 2' (H246880-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 09 2' (H246880-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 10 2' (H246880-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 11 2' (H246880-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04		
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71		
Total BTEX	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	11/13/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	206	103	200	11.8		
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	206	103	200	11.7		
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 12 2' (H246880-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 13 2' (H246880-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 14 2' (H246880-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 15 2' (H246880-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 16 2' (H246880-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 17 2' (H246880-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 18 2' (H246880-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 19 2' (H246880-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 20 2' (H246880-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	206	103	200	11.8	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	206	103	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 21 2' (H246880-21)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04		
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71		
Total BTEX	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	11/13/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	218	109	200	2.22		
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	222	111	200	3.69		
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND						

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 22 2' (H246880-22)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	2.11	105	2.00	5.04	
Toluene*	<0.050	0.050	11/12/2024	ND	2.17	108	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.09	104	2.00	5.38	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	6.65	111	6.00	4.71	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/13/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	218	109	200	2.22	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	222	111	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 23 1' (H246880-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	218	109	200	2.22	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	222	111	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 24 2' (H246880-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	218	109	200	2.22	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	222	111	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 25 2' (H246880-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	218	109	200	2.22	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	222	111	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 26 2' (H246880-26)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	199	99.4	200	6.39	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	180	90.2	200	13.4	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 27 2' (H246880-27)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	199	99.4	200	6.39	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	180	90.2	200	13.4	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 28 2' (H246880-28)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	199	99.4	200	6.39	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	180	90.2	200	13.4	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 29 2' (H246880-29)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	199	99.4	200	6.39	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	180	90.2	200	13.4	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 30 2' (H246880-30)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	199	99.4	200	6.39	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	180	90.2	200	13.4	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 31 1' (H246880-31)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 32 1' (H246880-32)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 33 1' (H246880-33)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 34 1' (H246880-34)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43		
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50		
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04		
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82		
Total BTEX	<0.300	0.300	11/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/13/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855		
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221		
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND						

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 35 1' (H246880-35)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 36 1' (H246880-36)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 37 1' (H246880-37)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/12/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/12/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/12/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 38 1' (H246880-38)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/13/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/13/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 39 3' (H246880-39)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/13/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/13/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/13/2024	Sampling Type:	Soil
Project Name:	PLU 28 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558520	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.10381-103.78643		

Sample ID: FS 40 3' (H246880-40)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	96.8	2.00	3.43	
Toluene*	<0.050	0.050	11/13/2024	ND	2.00	99.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.00	99.8	2.00	3.04	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	5.93	98.8	6.00	2.82	
Total BTEX	<0.300	0.300	11/13/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/13/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	191	95.5	200	0.855	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	185	92.4	200	0.221	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 4

Company Name: Ensolum, LLC
 Project Manager: Ben Belill
 Address: 3122 National Parks Hwy
 City: ~~Midland~~ ^{Carlsbad} Carlsbad State: ~~NM~~ ^{NM} Zip: 88502
 Phone #: 949 454 0852 Fax #:
 Project #: 0301554520 Project Owner: XTO
 Project Name: PLU 26 Big Sinks West Battery
 Project Location: 32.10381, -103.78645
 Sampler Name: Joshua Boley

P.O. #:
 Company: XTO Energy Inc
 Attn: ~~Colton Brown~~
 Address: 3104 E Green St
 City: Carlsbad
 State: NM Zip: 88220
 Phone #:
 Fax #:

FOR LAB USE ONLY
 Lab I.D. Sample I.D. Depth (feet)
 (G)RAB OR (C)OMP.
 # CONTAINERS
 MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER:
 PRESERV: ACID/BASE, ICE / COOL, OTHER:
 DATE TIME

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	DATE	TIME	ANALYSIS REQUEST
H246880	1 SW04	0-2	C	1	X	X	11.1.24	1010	Chlorides
	2 SW05	1			X			1500	TPH
	3 SW06	1			X			1505	BTEX
	4 SW07	1			X			1510	
	5 SW08	0-2			X			1525	
	6 SW09	0-3			X			1535	
	7 SW10	2			X			1625	
	8 FS08	2			X			0850	
	9 FS09	2			X			0855	
	10 FS10	2			X			0900	

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Relinquished By: *[Signature]* Date: 11-2-24 Received By: *[Signature]* Date: 11-12-24
 Relinquished By: *[Signature]* Date: 11-2-24 Received By: *[Signature]* Date: 11-12-24

Delivered By: (Circle One) Observed Temp.: °C 2.3 Sample Condition: Cool Intact Yes No
 Sampler - UPS - Bus - Other: Corrected Temp.: °C 1.7 Checked By: *[Signature]* (Initials) *[Signature]*

Turnaround Time: 24 hr Standard Rush
 Thermometer ID #44-#140 Corrected Factor -0.5°C
 Incident # APP 24 24134929
 CC-2101861001
 Bacteria (only) Sample Condition: Cool Intact Yes No Observed Temp.: °C Corrected Temp.: °C



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 4

BILL TO

ANALYSIS REQUEST

Company Name: Ensolium, LLC
 Project Manager: Ben Belli
 Address: 3122 National Parks Hwy
 City: ~~Midland~~ ^{Texas} Carlisbad
 State: ~~TX~~ ^{NM} Zip: 87522
 Phone #: 989 4524 0452 Fax #: _____
 Project #: 0301558520 Project Owner: XTO
 Project Name: PLV 26 Big Sinks West Battery
 Project Location: 32.10381, -103.78643
 Sampler Name: Joshua Boxley
 P.O. #: _____ Company: XTO Energy Inc
 Attn: ~~Colton Brown~~
 Address: 3101 E Green St
 City: Carlisbad
 State: NM Zip: 87520
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	CHLORIDES	TPH	BTEX	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						ICE / COOL
H246880	F311	2'	C	1			X						11.1.24	0905	X	X	X
	F312													0920			
	F313													0925			
	F314													0930			
	F315													0935			
	F316													0940			
	F317													1000			
	F318													1005			
	F319													1035			
	F320													1040			

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Relinquished By: *[Signature]*
 Date: 11-12-24
 Received By: *[Signature]*
 Date: 11-12-24
 Time: 1400
 Received By: *[Signature]*

Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 B.Belli@ensolium.com, T.Morrissey@ensolium.com, K.Thayovan@ensolium.com
 REMARKS: APP-24-24134929
 Incident = W40-241961001
 Turnaround Time: Standard Rush
 Thermometer ID #493 #140
 Correction Factor: 0.3°C
 Bacteria (only) Sample Condition
 Cool Intact Yes No
 Corrected Temp. °C

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other:
 Observed Temp. °C: 8.3
 Corrected Temp. °C: 1.7
 Sample Condition: Cool Intact Yes No
 CHECKED BY: *[Signature]*

FORM-008 R 3.2 10/07/21
 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

3 of 4

Project Manager: **Ben Belli**
 Address: 3122 National Parks Hwy
 City: ~~Midland~~ ¹⁰⁶⁵ ~~Carlsbad~~ State: ~~NM~~ ³⁰⁵ NM Zip: 94220
 Phone #: 989 454 0852 Fax #:
 Project #: 0301554520 Project Owner: XTO
 Project Name: PLU 26 Big Snaks West Battery
 Project Location: 32.10381, -103.78645
 Sampler Name: Joshua Boxley
 P.O. #: Company: XTO Energy Inc
 Attn: ~~Colton Brown~~
 Address: 3101 E Green St
 City: Carlsbad
 State: NM Zip: 48220
 Phone #: Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CHLORIDES	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H244880															
81	F521	2	C	1							11/12/24	1045	X	X	X
82	F522	2	C	1	X						11/12/24	1050	X	X	X
83	F523	1	C	1							11/12/24	1340	X	X	X
84	F524	2'	C	1							11/12/24	1115	X	X	X
85	F525	2	C	1							11/12/24	1120	X	X	X
86	F526	2	C	1							11/12/24	1345	X	X	X
87	F527	2	C	1							11/12/24	1605	X	X	X
88	F528	2	C	1							11/12/24	1610	X	X	X
89	F529	2	C	1							11/12/24	1615	X	X	X
90	F530	2	C	1							11/12/24	1620	X	X	X

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Relinquished By: *[Signature]* Date: 11-12-24
 Received By: *[Signature]* Date: 11-12-24
 Time: 1400
 Received By: *[Signature]*

Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 BBelli@ensolum.com; T.Morrissey@ensolum.com; K.Thornton@ensolum.com
 Incident: WAPP 242134929
 Remarks: IC-2101861001

Delivered By: (Circle One) Observed Temp. °C: 23
 Sampler - UPS - Bus - Other: Corrected Temp. °C: 1.7
 Sample Condition: Cool Intact Yes No
 CHECKED BY: (Initials) *[Signature]*
 Turnaround Time: Standard Rush
 Thermometer ID: #449440
 Correction Factor: -0.5°C TO 11/12/24
 Bacteria (only) Sample Condition: Cool Intact Yes No
 Corrected Temp. °C



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4 of 4

Project Manager: Ben Bellil

Address: 3122 National Parks Hwy

City: Midland ^{TX} Carlisle State: NM Zip: 98220

Phone #: 989 454 0852 Fax #:

Project #: 0301558520 Project Owner: XTO

Project Name: PLV 26 Big Snaks West Battery

Project Location: 32.10381, -103.78645

Sampler Name: Joshua Boxley

FOR LAB USE ONLY

BILL TO

P.O. #: XTO Energy Inc

Company: XTO Energy Inc

Attn: Colton Brown

Address: 3101 E Green St

City: Carlisle

State: NM Zip: 98220

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	ANALYSIS REQUEST
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :			
<u>4246880</u>	<u>F531</u>	<u>1</u>	<u>C</u>	<u>1</u>									<u>11.12.24</u>	<u>1430</u>	<u>CHLondes</u>	
	<u>F532</u>	<u>1</u>	<u>C</u>	<u>1</u>									<u>11.12.24</u>	<u>1420</u>	<u>TPH</u>	
	<u>F533</u>	<u>1</u>	<u>C</u>	<u>1</u>									<u>11.12.24</u>	<u>1415</u>	<u>BTEX</u>	
	<u>F534</u>	<u>1</u>	<u>C</u>	<u>1</u>									<u>11.12.24</u>	<u>1410</u>		
	<u>F535</u>	<u>1</u>	<u>C</u>	<u>1</u>									<u>11.12.24</u>	<u>1405</u>		
	<u>F536</u>	<u>1</u>	<u>C</u>	<u>1</u>									<u>11.12.24</u>	<u>1400</u>		
	<u>F537</u>	<u>1</u>	<u>C</u>	<u>1</u>									<u>11.12.24</u>	<u>1355</u>		
	<u>F538</u>	<u>1</u>	<u>C</u>	<u>1</u>									<u>11.12.24</u>	<u>1350</u>		
	<u>F539</u>	<u>1</u>	<u>C</u>	<u>1</u>									<u>11.12.24</u>	<u>1450</u>		
	<u>F540</u>	<u>3</u>	<u>C</u>	<u>1</u>									<u>11.12.24</u>	<u>1455</u>		

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Relinquished By: [Signature]

Date: 11-22-24

Received By: [Signature]

Date: 11-22-24

Verbal Result: Yes No Add'l Phone #:

REMARKS: BBellil@ensolum.com, T.Morrissey@ensolum.com, K.Thompson@ensolum.com

Turnaround Time: 10:219 1961001

Delivered By: (Circle One)

Observed Temp. °C: 9.3

Sample Condition: Cool Intact

CHECKED BY: [Signature]

Thermometer ID: 443 #140

Bacteria (only) Sample Condition: Standard Rush

Corrected Temp. °C: 1.7

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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS

Action 406403

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 406403
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2424734929
Incident Name	NAPP2424734929 PLU 28 BIG SINKS WEST BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	PLU 28 Big Sinks West Battery
Date Release Discovered	08/27/2024
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Other (Specify) Produced Water Released: 5 BBL Recovered: 0 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	PW line on scrubber

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QUESTIONS, Page 2

Action 406403

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 406403
	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)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 11/25/2024
--	--

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Phone: (505) 476-3441

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Phone: (505) 629-6116

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QUESTIONS, Page 3

Action 406403

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 406403
	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	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	416
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	11/07/2024
On what date will (or did) the final sampling or liner inspection occur	11/11/2024
On what date will (or was) the remediation complete(d)	11/11/2024
What is the estimated surface area (in square feet) that will be reclaimed	7800
What is the estimated volume (in cubic yards) that will be reclaimed	800
What is the estimated surface area (in square feet) that will be remediated	7800
What is the estimated volume (in cubic yards) that will be remediated	800

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

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

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 4

Action 406403

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 406403
	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	OWL LANDFILL JAL [JEG1635837366]
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: 11/25/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 406403

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 406403
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 406403

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 406403
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	400225
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/11/2024
What was the (estimated) number of samples that were to be gathered	40
What was the sampling surface area in square feet	8000

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	7800
What was the total volume (cubic yards) remediated	800
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	7800
What was the total volume (in cubic yards) reclaimed	800
Summarize any additional remediation activities not included by answers (above)	"Site assessment, delineation and excavation activities were conducted at the Site to address the August 27, 2024, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations 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. 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 Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2424734929."

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.

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 11/25/2024
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QUESTIONS, Page 7

Action 406403

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 406403
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 406403

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 406403
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2424734929 PLU 28 BIG SINKS WEST BATTERY, thank you. This Remediation Closure Report is approved.	12/26/2024