



January 2, 2025

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

**Re: Remediation Work Plan  
Row 5 West Booster Station  
Incident Number NAPP2428259758  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan (Work Plan)* to document the site assessment activities completed to date and propose a work plan to address impacted soil identified at the Row 5 West Booster Station (Site). The purpose of the site assessment activities was to delineate the lateral and vertical extent of impacted soil resulting from a release of produced water at the Site. The following *Work Plan* proposes to excavate impacted soil within the top 4 feet of the release extent.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit K, Section 20, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.1142303°, -103.9071374°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On October 8, 2024, a pump failed resulting in the release of 187 barrels (bbls) of produced water onto the pad. No fluids were recovered. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) submitted on October 8, 2024, and subsequently submitted the Initial C-141 Application (C-141) on October 9, 2024. The release was assigned Incident Number NAPP2428259758.

## **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

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

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. In February 2020, a New Mexico Office of the State Engineer (NMOSE) permitted well (C-4394), located approximately 0.44 miles west of the Site, was advanced to a depth of 110 feet bgs. Depth to groundwater is documented to be greater than 110 feet bgs. The Well Record is included in Appendix A and all referenced wells are depicted on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a dry wash located approximately 1,072 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole,

XTO Energy, Inc.  
Remediation Work Plan  
Row 5 West Booster Station

or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by stable geology (low potential karst designation area).

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

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

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

## SITE ASSESSMENT AND DELINEATION ACTIVITIES

On October 31, 2024 Ensolum personnel conducted a Site visit to evaluate the release extent based on information provided on the C-141 and visual observations. Ensolum personnel collected fourteen delineation soil samples (SS01 through SS14) within and around the release extent from a depth of 0.5 feet bgs to assess the lateral extent of the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix B.

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

On November 21, 2024, Ensolum personnel returned to the Site to oversee vertical delineation of the release extent. Delineation boreholes BH01 through BH08 were advanced in the approximate locations of SS01 through SS08, respectively. The delineation boreholes were advanced via hand auger to a maximum depth of 9 feet bgs. Discrete soil samples were collected from each borehole at depths ranging from 1-foot bgs to 9 feet bgs. Soil from the boreholes was field screened for VOCs and chloride. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. Delineation soil samples from each borehole, at depths ranging from 1 foot bgs to 9 feet bgs were collected, handled and analyzed as described above at Cardinal in Hobbs, New Mexico. The soil sample locations are depicted on Figure 2.

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Remediation Work Plan  
Row 5 West Booster Station

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples SS01/BH01 through SS08/BH08 indicated that TPH-GRO/TPH-DRO, TPH, and/or chloride concentrations exceeded the Closure Criteria and/or reclamation requirement at depths ranging from 0.5 feet to 4 feet bgs. Laboratory analytical results for delineation soil samples SS06/BH06 and SS08/BH08 collected at 5 feet and 6 feet bgs, respectively, indicated that all COC concentrations were in compliance with the strictest Table I Closure Criteria, successfully defining the vertical extent of the release. In addition, laboratory analytical results for delineation soil samples SS09 through SS14 collected outside of the release extent indicated concentrations of all COCs were compliant with the Closure Criteria and reclamation requirement and successfully defined the lateral extent of the release. Laboratory analytical results are summarized in Table 1 and the Laboratory Analytical Reports & Chain-of-Custody Documentation are presented in Appendix D.

## PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate soil containing elevated TPH-GRO/TPH-DRO, TPH, and/or chloride concentrations exists across an approximate 72,456 square foot area and extends to a maximum depth of 4 feet bgs. XTO proposes to complete the following remediation activities:

- Excavation of waste-containing and impacted soil to a depth of 4 feet bgs. Excavation will proceed laterally until sidewall samples confirm all COC concentrations are compliant with the strictest Table I Closure Criteria.
- An estimated 10,734 cubic yards of waste-containing and impacted soil will be excavated. The excavated soil will be transferred a New Mexico approved landfill facility for disposal.
- Following excavation and a review of confirmation soil sampling results indicating all waste-containing and impacted soil has been removed, the excavation will be backfilled and recontoured to match pre-existing conditions and reseeded with a BLM approved seed mixture.

Due to the estimated 72,456 square foot size of the excavation, XTO requests a variance for frequency of excavation confirmation samples. XTO proposes the frequency of confirmation sampling for the excavation floor to be decreased from every 200 square feet (approximately 362 samples) to every 400 square feet (approximately 181 samples). Each 5-point composite floor sample will represent a 400 square foot area. The proposed sampling grid and approximate excavation extent is depicted on Figure 3. Sidewall samples in areas of the excavation in the pasture which are anticipated to be as deep as 4 feet bgs will be collected at a frequency of every 200 square feet (approximately 11 samples). The soil samples will be handled as described above and analyzed for all COCs at Cardinal in Hobbs, New Mexico.

XTO will proceed with the excavation and soil sampling activities and will submit a Closure Report within 90 days of the date of approval of this Work Plan by the NMOCD.

XTO Energy, Inc.  
Remediation Work Plan  
Row 5 West Booster Station

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

Sincerely,  
**Ensolum, LLC**



Jesse Dorman  
Associate Geologist



Tacoma Morrissey, MS  
Associate Principal

cc: Colton Brown, XTO  
Kaylan Dirkx, XTO  
BLM

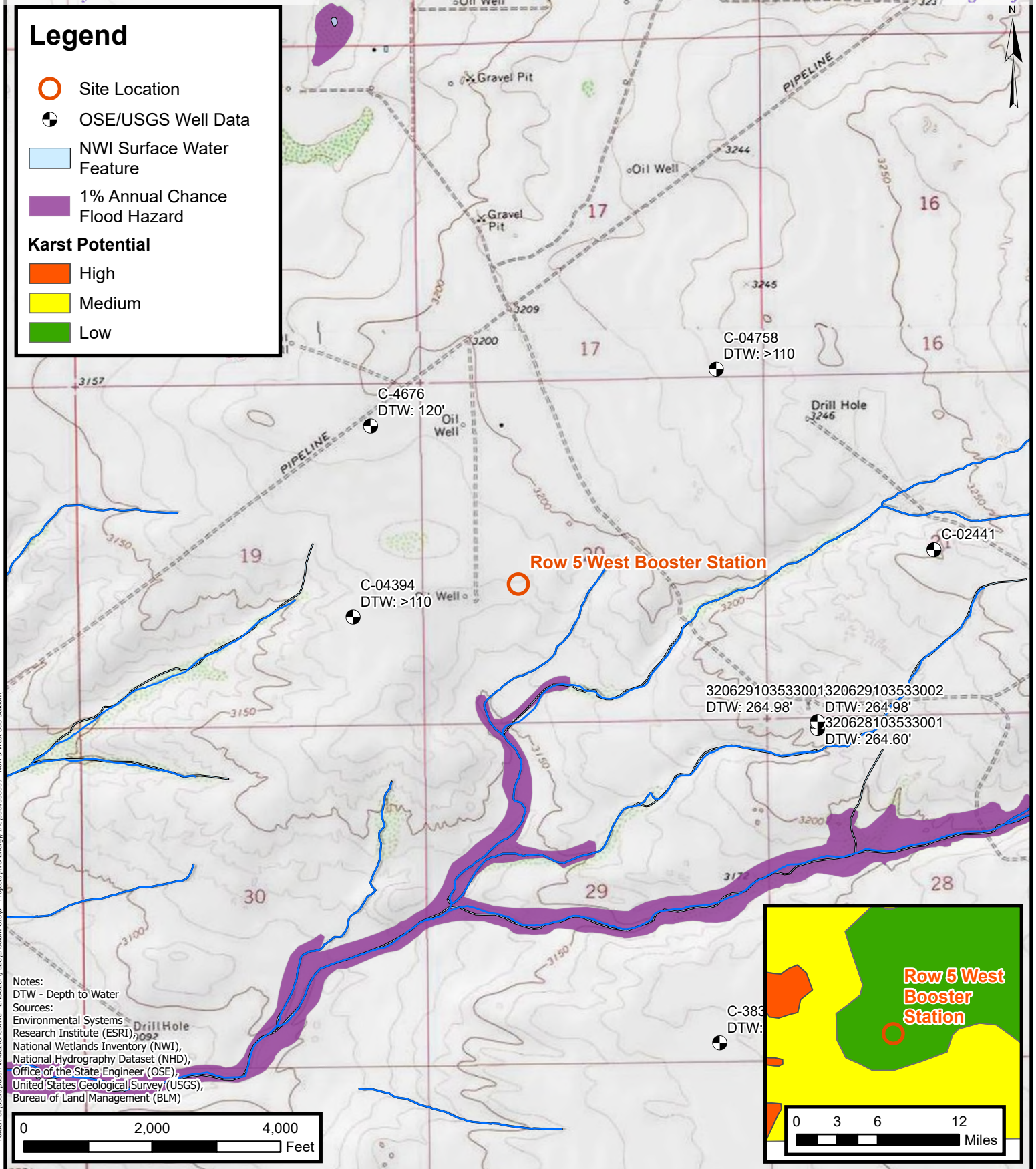
Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Proposed Excavation Map
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation





FIGURES



## Site Receptor Map

XTO Energy, Inc  
Row 5 West Booster Station  
Incident Number: nAPP2428259758  
Unit K, Section 20, T25S, R30E  
Eddy County, New Mexico

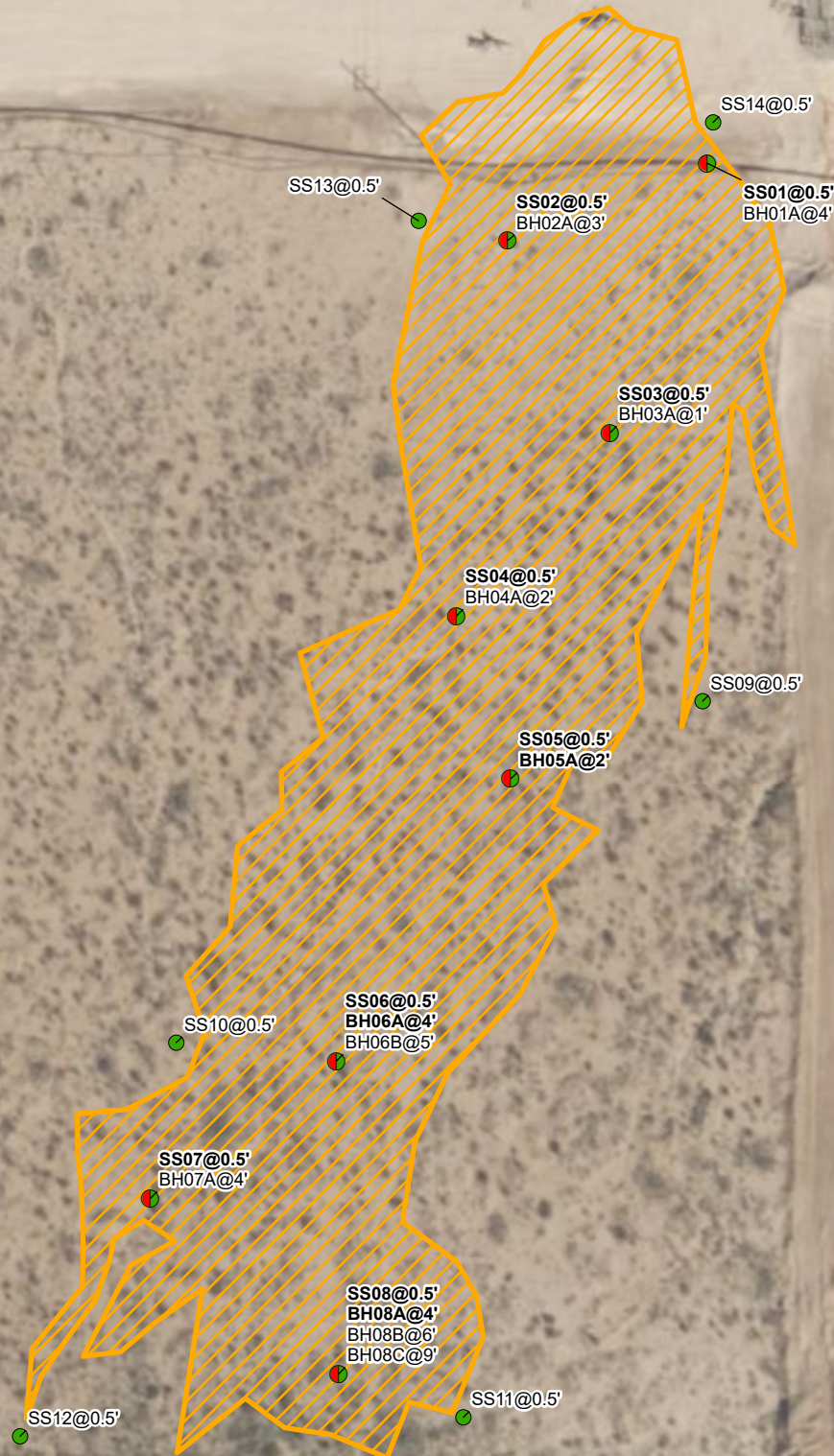
FIGURE

1



**Legend**

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- ▨ Release Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable closure criteria.

0 15 30 60 90 120  
 Feet

Sources: Environmental Systems Research Institute (ESRI)

## Delineation Soil Sample Locations

XTO Energy, Inc  
 Row 5 West Booster Station  
 Incident Number: nAPP2428259758  
 Unit K, Section 20, T25S, R30E  
 Eddy County, New Mexico



**FIGURE**

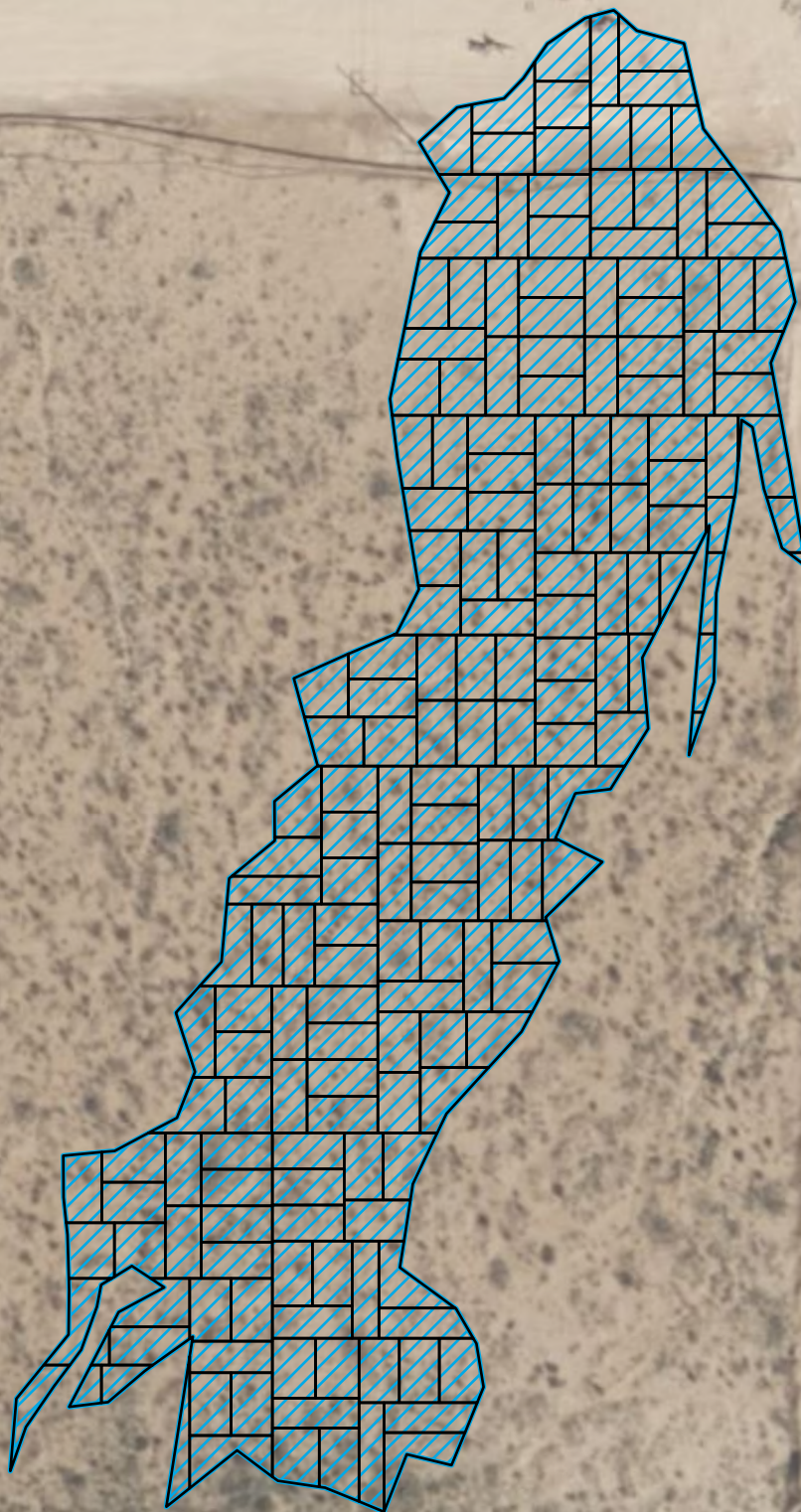
**2**





**Legend**

-  Proposed Excavation  
Extent
-  400 Sqft Sampling Grid



0 15 30 60 90 120  
Feet

Sources: Environmental Systems Research Institute (ESRI)



## Proposed Excavation Map

XTO Energy, Inc  
Row 5 West Booster Station  
Incident Number: nAPP2428259758  
Unit K, Section 20, T25S, R30E  
Eddy County, New Mexico

## FIGURE

## 3



TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 ROW 5 West Booster Station  
 XTO Energy, Inc  
 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	10/31/2024	0.5	<0.050	<0.300	<10.0	625	120	625	745	2,720
BH01A	11/21/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	10/31/2024	0.5	<0.050	<0.300	<10.0	155	25.7	155	181	4,880
BH02A	11/21/2024	3	<0.050	<0.300	<10.0	45.7	<10.0	45.7	45.7	224
SS03	10/31/2024	0.5	<0.050	<0.300	<10.0	1,420	289	<b>1,420</b>	1,709	3,480
BH03A	11/21/2024	1	<0.050	<0.300	<10.0	42.8	<10.0	42.8	42.8	208
SS04	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,600
BH04A	11/21/2024	2	<0.050	<0.300	<10.0	38.5	<10.0	38.5	38.5	96.0
SS05	10/31/2024	0.5	<0.050	<0.300	<10.0	122	16.1	122	138	2,040
BH05A	11/21/2024	2	<0.050	<0.300	<10.0	3,090	666	<b>3,090</b>	<b>3,756</b>	144
SS06	10/31/2024	0.5	<0.050	2.53	320	4,590	588	<b>4,910</b>	<b>5,498</b>	2,400
BH06A	11/21/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH06B	11/21/2024	5	<0.050	<0.300	<10.0	31.5	<10.0	31.5	31.5	112
SS07	10/31/2024	0.5	<0.050	<0.300	<10.0	226	55.1	226	281	2,200
BH07A	11/21/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SS08	10/31/2024	0.5	<0.050	<0.300	<10.0	608	113	608	721	3,040
BH08A	11/21/2024	4	<0.050	<0.300	<10.0	151	25.8	151	177	64.0
BH08B	11/21/2024	6	<0.050	<0.300	<10.0	16.0	<10.0	16.0	16.0	48.0
BH08C	11/21/2024	9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0



TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
ROW 5 West Booster Station  
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
SS09	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS10	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS11	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS12	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS13	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS14	10/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

Notes:

bgs: below ground surface  
mg/kg: milligrams per kilogram  
NMOCD: New Mexico Oil Conservation Division  
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes  
Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics  
DRO: Diesel Range Organics  
ORO: Oil Range Organics  
TPH: Total Petroleum Hydrocarbon  
NMAC: New Mexico Administrative Code  
~~Grey~~ text indicates soil sample removed during excavation activities






## APPENDIX A

### Referenced Well Records

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 <b>LT Environmental, Inc.</b> 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: <b>MW01 C 4394</b>	Date: <b>2/4/2020</b>					
		Project Name: <b>PLU 423</b>	RP Number: <b>ZRP-3790</b>					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>		Logged By: <b>FS</b>	Method: <b>SONIC</b>					
Lat/Long:		Field Screening: <del>CHLORIDES, PID</del>	Hole Diameter: <b>4"/6"</b>					
		Total Depth: <b>110'</b>						
Comments: <b>No sampling, Lithology remarks only</b>								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					1			hydrovac excavated (refusal @ 1')
					2			2.5' SAND, dry, well graded, coarse-fine graind,
					3		SW-S	light brwn - tan, no stain, no odor
					4			5' few silty sand pockets, reddish brwn, no plas, non cohesive
					5			
					6			
					7		SP	6' SAND, dry, poorly graded, light brwn - brwn, fine - very fine
					8			
					9			7.5' some mod. consol. ss
					10		SW-S	light brwn - brwn, sub rounded
					11			
					12			10' abundant ss 10-11' color change
					13		SP	12' ss gravel? absent tan-off white
					14			16' abundant ss gravel 13' back t/ (mod consol) light brwn -
					15			19' abundant - some brwn
					16			21.5' sandstone, light, abundant
					17		SW-S	brwn - tan, dry, mod well consolidated
					18			23' sandstone chunks absent
					19			
					20			
					21			
					22			
					23			
					24			
					25			



**LT Environmental, Inc.**  
508 West Stevens Street  
Carlsbad, New Mexico 88220

Compliance · Engineering · Remediation

Identifier:  
**MW01 C 4394**

Date:  
**2/4/2020**

Project Name:  
**PLU 423**

RP Number:  
~~2RP-2674~~  
**2RP-3790**

### LITHOLOGIC / SOIL SAMPLING LOG

Logged By: **FS**

Method: **SONIC**

Lat/Long:

Field Screening: ~~CHLORIDES, PID~~


Hole Diameter: **4 1/8"**

Total Depth: **110'**

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D			Z		26			27.5' SAND, dry, light brown-tan, poorly graded, fine-very fine grey-grey
D			Z		27			30' trace light brown-tan caliche pebbles (gravel), rounded
D			Z		28		SP	31' caliche pebbles absent
D			Z		29			31.5' color change light brown-reddish brown
M			Z		30			33-34' abundant ss chunks, mod consol
M			Z		31			35' ss chunks absent
M			Z		32			36' some clay pockets, reddish brown, few pebbles, rounded-subrounded, grey-light grey, few laminations w/ clay, caliche, dolomite?
M			Z		33		SW-S	42.5' clay laminations, trace, reddish brown
D			Z		34			44' color change, light brown-tan, SILTY sand
D			Z		35			44.5' some SILTY sand, light brown-tan, no plasticity, non cohesive, trace high plas clay nodules, reddish brown
D			Z		36		SP-SM	48.5' low plas clay band, orange (35-40 mm)
			Z		37			49.5' faint yellow band, (15-20 mm)
					38			
					39			
					40			
					41			
					42			
					43			
					44			
					45			
					46			
					47			
					48			
					49			
					50			

rig adding  
water

 <b>LT Environmental, Inc.</b> 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: <b>MW01 C 4394</b>	Date: <b>2/4/2020</b>					
		Project Name: <b>PLU 423</b>	RP Number: <b>ZRP-3790</b>					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>		Logged By: <b>FS</b>	Method: <b>sonic</b>					
Lat/Long:	Field Screening: <b>CHLORIDES, PH</b>	Hole Diameter: <b>4" / 6"</b>	Total Depth: <b>110'</b>					
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
U			Z		51		SP	51.5' trace, high plas clay nodules
U			Z		52			
U			Z		53			53-54' some silty ss, poorly consolidated
M			Z		54			
M			Z		55			55.5' color change tan-grey band (30mm)
M			Z		56			
M			Z		57			59.5' SILTY sand, light
M			Z		58			brwn-brwn, moist,
M			Z		59			no plas, non cohesive,
M			Z		60		SM	no stain
U			Z		61			62' more consolidated
M			Z		62			64' dark brwn color
U			Z		63		sm-S	change, silty
M			Z		64			clay nodules
M			Z		65			66' pockets of silty
U			Z		66			clay brwn-green
M			Z		67			68' low plas clay pockets
M			Z		68			some, few low plas
U			Z		69			clay laminations
M			Z		70			
U			Z		71			71' SILTY sand, dry,
M			Z		72			no plas, non cohesive,
U			Z		73			light brwn-tan
M			Z		74		SM	74' trace caliche pebbles,
U			Z		75			light grey-grey





LT Environmental, Inc.  
508 West Stevens Street  
Carlsbad, New Mexico 88220

Compliance · Engineering · Remediation

Identifier: MWDI C 4394

Date: 2/4/2020

Project Name: PLU 423

RP Number: ZRP-3790

# LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long:

Field Screening: CHLORIDES, PID

Logged By: FS, BB


Method: sonic

Hole Diameter: 6 1/4"

Total Depth: 110'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D			N		76		SM	76.5' trace low plas clay nodules, reddish brown
D			N		77			
D			N		78			82' CLAYSTONE, moist, brown-greenish grey, low plasticity, cohesive, no stain, no odor, mod consolidated
D			N		79			
D			N		80			
D			N		81			85' SILTY sand, dry, light brown - brown, no plas, non cohesive, no stain, no odor
D			N		82		CL-S	
D			N		83			
D			N		84			
D			N		85		SM	87' color change tan - off white
D			N		86		SM	88' light brown - brown
D			N		87		SM-S	
D			N		88			87' SILTSTONE, dry, w/ clay pockets, low plas
D			N		89			
D			N		90			
D			N		91			91' abundant clay pockets
D			N		92			94.5' band yellow low plas clay
D			N		93			
D			N		94		SM	
D			N		95		CH	end @ 95' 2/4/2020
D			N		96			2/5/20
D			N		97			95'-101' CLAY, moist, brown - dark brown, high plasticity, cohesive, some tan clay laminations, no stain, no odor.
D			N		98			
D			N		99			98'-99' tan fine grain sandstone stringers.
D			N		100			

 <b>LT Environmental, Inc.</b> 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: MWO F 4394	Date: 2/5/2020					
		Project Name: PLU 423	RP Number: 2RP-3790					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>		Logged By: BP	Method: Sonic					
Lat/Long:		Field Screening: CHLORIDES, PID.	Hole Diameter: 6" / 4"					
			Total Depth: 110'					
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D			N		101		CH SP-S	101' - 105' SANDSTONE, tan-light brown, dry, moderately consolidated, calcareous cemented, poorly graded, no stain, no odor.
D			N		102			
D			N		103			
D			N		104			
m			N		105		CH	105' - 110' CLAY, moist, dark brown - brown, high plasticity, cohesive, thin tan sand laminations, no stain, no odor.
D			N		106			
D			N		107			
D			N		108			
m			N		109			107' - 109' tan - light brown well consolidated fine green sandstone stringer.
					110			
					111		TD @ 110'	TD @ 110'
					112			
					113			
					114			
					115			
					116			
					117			
					118			
					119			
					120			
					121			
					122			
					123			
					124			
					125			



## APPENDIX B

### Photographic Log

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**Photographic Log**

XTO Energy, Inc.

Row 5 West Booster Station

nAPP2428259758



Photograph: 1 Date: 10/08/2024  
Description: Staining within release extent  
View: Southeast



Photograph: 2 Date: 10/31/2024  
Description: Staining within release extent  
View: South



Photograph: 3 Date: 11/21/2024  
Description: Delineation activities  
View: Northeast




Photograph: 4 Date: 11/21/2024  
Description: Delineation activities  
View: Southwest





## APPENDIX C


### Lithologic Soil Sampling Logs


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								Sample Name: SS01/BH01		Date: 11/21/2024	
								Site Name: Row 5 West Sub Station			
								Incident Number: nAPP2428259758			
								Job Number: 03C1558559			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: JDB		Method: Hand auger	
Coordinates: 32.114135, -103.907115								Hole Diameter: 2.5"		Total Depth: 4'	
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. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	4088	0.0	N	SS01	0.5	0	SP/CL	(0-4') SAND, clay to sand sized grained, dark tan, poorly consolidated, no odor, poorly graded			
D	4054	3.2	Y	BH01	1	1					
D	<179.2	2.8	N			2					
D	<179.2	1.9	N			3					
D	<179.2	0.8	N	BH01A	4	4					
								(@4') Hit Refusal			
Total Depth @ 4 BGS											


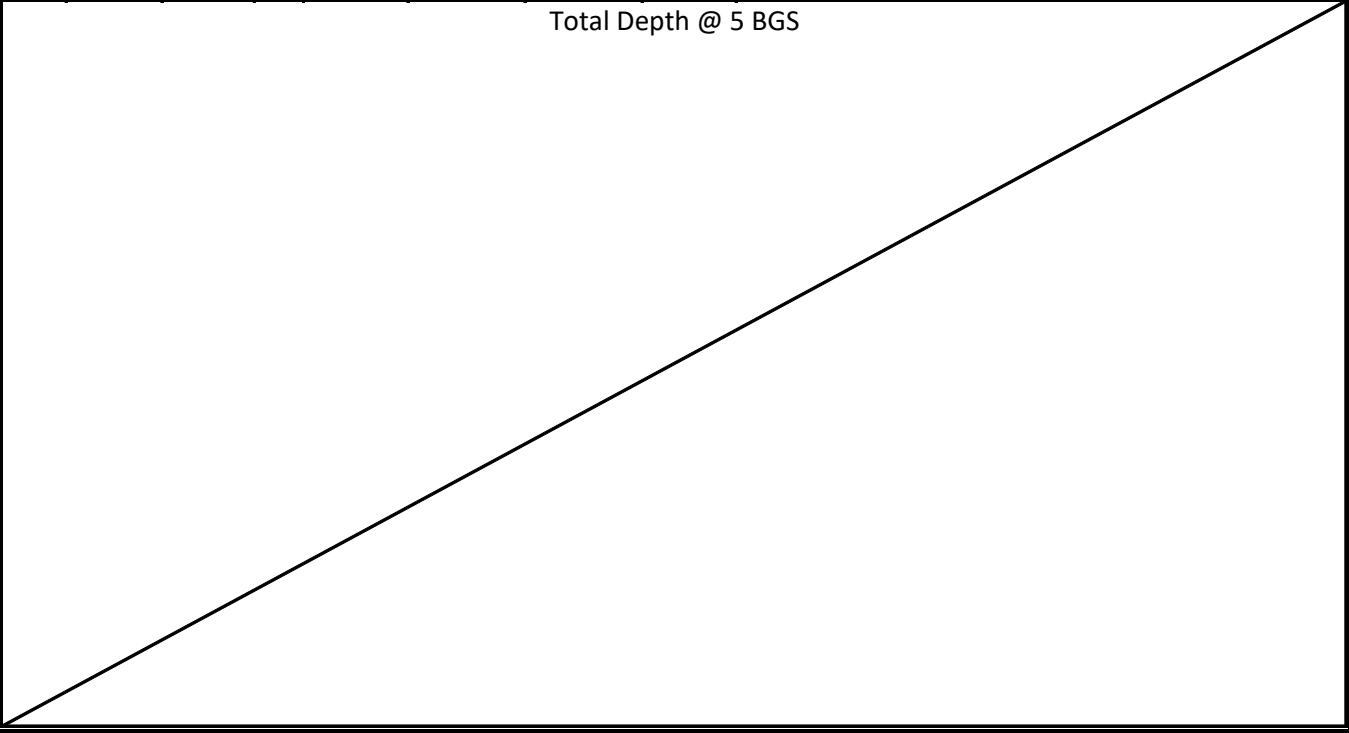
								Sample Name: SS02/BH02		Date: 11/21/2024	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Site Name: Row 5 West Sub Station			
								Incident Number: nAPP2428259758			
								Job Number: 03C1558559			
Coordinates: 32.114051, -103.907378								Logged By: JDB		Method: Hand auger	
								Hole Diameter: 2.5"		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. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	10,064	0.0	N	SS02	0.5	0	SP/CL	(0-4') SAND, clay to sand sized grained, dark tan, poorly consolidated, no odor, poorly graded (+ faint odor)			
D	856.8	2.3	Y	BH02	1	1					
D	856.8	7.5	Y			2					
D	<179.2	1.8	N	BH02A	3	3					
Total Depth @ 3' BGS											


								Sample Name: SS03/BH03		Date: 11/21/2024	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Site Name: Row 5 West Sub Station			
								Incident Number: nAPP2428259758			
								Job Number: 03C1558559			
Coordinates: 32.113835, -103.907246								Logged By: JDB		Method: Hand auger	
								Hole Diameter: 2.5"		Total Depth: 1'	
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. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	1034	7.3	Y	SS03	0.5	0	SP/CL	(0-1') SAND, clay to sand sized grained, dark tan, poorly consolidated, faint odor, poorly graded			
D	274.4	0.7	N	BH03A	1	1					
Total Depth @ 1' BGS											


								Sample Name: SS04/BH04		Date: 11/21/2024	
								Site Name: Row 5 West Sub Station			
								Incident Number: nAPP2428259758			
								Job Number: 03C1558559			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: JDB		Method: Hand auger	
Coordinates: 32.113631, -103.907450								Hole Diameter: 2.5"		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. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	6260	0.6	N	SS04	0.5	0	SP/CL	(0-2') SAND, clay to sand sized grained, dark tan, poorly consolidated, faint odor, poorly graded			
D	4435.2	0.4	N	BH04	1	1					
D	162.4	0.4	N	BH04A	2	2					
Total Depths @ 2' BGS											

								Sample Name: SS05/BH05		Date: 11/21/2024	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Site Name: Row 5 West Sub Station			
								Incident Number: nAPP2428259758			
								Job Number: 03C1558559			
Coordinates: 32.113448, -103.907381								Logged By: JDB		Method: Hand auger	
								Hole Diameter: 2.5"		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. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	2777	0.30	Y	SS05	0.5	0	SP/CL	(0-2') SAND, clay to sand sized grained, dark tan, poorly consolidated, faint odor, poorly graded			
D	918.4	1.2	Y	BH05	1	1					
D	146	1.0	N	BH05A	2	2					
Total Depth @ 2' BGS											



								Sample Name: SS06/BH06		Date: 11/21/2024	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Site Name: Row 5 West Sub Station			
								Incident Number: nAPP2428259758			
								Job Number: 03C1558559			
Coordinates: 32.113134, -103.907614								Logged By: JDB		Method: Hand auger	
								Hole Diameter: 2.5"		Total Depth: 5'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	4088	101.7	Y	SS06	0.5	0	SP/CL	(0-5') SAND, clay to sand sized grained, dark tan, poorly consolidated, faint odor, poorly graded			
D	17136	2.5	Y	BH06	1	1					
D	638.4	2.5	Y			2					
D	<162.4	2.1	N			3					
D	<162.4	2.0	N	BH06A	4	4					
D		1.0		BH06B	5	5					
Total Depth @ 5 BGS											
											

 <b>ENSOLUM</b>								Sample Name: SS07/BH07		Date: 11/21/2024	
								Site Name: Row 5 West Sub Station			
								Incident Number: nAPP2428259758			
								Job Number: 03C1558559			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: JDB		Method: Hand auger	
Coordinates: 32.112982, -103.907860								Hole Diameter: 2.5"		Total Depth: 4'	
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. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)		Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
D	3024	0.0	Y	SS07	0.5		0	SP/CL	(0-4') SAND, clay to sand sized grained, dark tan, poorly consolidated, faint odor, poorly graded		
D	1170.4	0.7	N	BH07	1		1				
D	638.4	0.7	N				2				
D	515.2	0.7	N				3				
D	414.4	0.6	N	BH07A	4		4				
Total Depth @ 4' BGS											

								Sample Name: SS08/BH08		Date: 11/21/2024	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Site Name: Row 5 West Sub Station			
								Incident Number: nAPP2428259758			
								Job Number: 03C1558559			
Coordinates: 32.112783, -103.907615								Logged By: JDB		Method: Hand auger	
Hole Diameter: 2.5"								Total Depth: 9'			
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. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	3186	12.9	Y	SS08	0.5	0	SP/CL	(0-9') SAND, clay to sand sized grained, dark tan, poorly consolidated, faint odor, poorly graded			
D	1982.4	5.4	Y	BH08	1	1					
D	996.8	5.1	Y			2					
D	576.8	3.8	N			3					
D	162.4	3.0	N	BH0A	4	4					
D	<162.4	6.5	N			5					
D	<162.4	3.7	N	BH08B	6	6					
D	<162.4	6.5	N			7					
D	<162.4	3.4	N			8					
D	<162.4	3.8	N	BH08C	9	9					
								(@ 9') Hit Refusal			
Total Depth @ 9'											



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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

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November 26, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/22/24 12:06.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Snyder", written in a cursive style.

Mike Snyder For 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: 11/22/2024  
Reported: 11/26/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 01 A 4' (H247177-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	4.53	
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46	
Total BTX	<0.300	0.300	11/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 65.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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: 11/22/2024  
Reported: 11/26/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 02 A 3' (H247177-02)**

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	11/25/2024	ND	2.03	101	2.00	4.53		
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	45.7	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 67.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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: 11/22/2024  
Reported: 11/26/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 03 A 1' (H247177-03)**

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	11/25/2024	ND	2.03	101	2.00	4.53	
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46	
Total BTEX	<0.300	0.300	11/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	42.8	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 59.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 56.2 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For 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: 11/22/2024  
Reported: 11/26/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 04 A 2' (H247177-04)**

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	11/25/2024	ND	2.03	101	2.00	4.53	
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46	
Total BTEX	<0.300	0.300	11/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	38.5	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Mike Snyder For 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: 11/22/2024  
Reported: 11/26/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 05 A 2' (H247177-05)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	4.53	
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46	
Total BTX	<0.300	0.300	11/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	3090	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	666	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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: 11/22/2024  
Reported: 11/26/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 06 A 4' (H247177-06)**

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	11/25/2024	ND	2.03	101	2.00	4.53	
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46	
Total BTEX	<0.300	0.300	11/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Mike Snyder For 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: 11/22/2024  
Reported: 11/26/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 07 A 4' (H247177-07)**

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	11/25/2024	ND	2.03	101	2.00	4.53		
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46		
Total BTEX	<0.300	0.300	11/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For 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: 11/22/2024  
Reported: 11/26/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 08 A 4' (H247177-08)**

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	11/25/2024	ND	2.03	101	2.00	4.53	
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46	
Total BTEX	<0.300	0.300	11/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	151	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	25.8	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

12

Company Name: Ensolum, LLC		<b>BILL TO</b>		ANALYSIS REQUEST				
Project Manager: Ben Bell		P.O. #:						
Address: 3122 National Parks Hwy		Company: XTO Energy Inc						
City: Carlsbad		Attn: Colton Brown						
Phone #: 989 454 0852		Address: 3104 E Green St						
Fax #: 031558559		City: Carlsbad						
Project #: 031558559		State: NM Zip: 88220						
Project Name: RW 5 West Substation		Phone #:						
Project Location: 32,1142303, -105.9071374		Fax #:						
Sampler Name: Joshua Boxley								

Lab I.D.		Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING		Chlorides	TPH	BTEX						
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME						
1247177		BH01A	4	G	1			X				X			11.21.24	1030	X	X				
		BH02A	3													1150						
		BH03A	2													1530						
		BH04A	2													1445						
		BH05A	2													1430						
		BH06A	4													1410						
		BH07A	4													1330						
		BH08A	4	G	1			X				X			11.21.24	1230	X	X				

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Relinquished By:	Date:	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:				
	Time:						
Relinquished By:	Date:	Received By:	REMARKS: Incident # <u>755</u> <u>ATP 2426259 756</u> Cost Center: <u>1061711001</u>				
	Time:						
Delivered By: (Circle One)	Observed Temp.: <u>5.3°C</u>	Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>ATP</u>	Turnaround Time: <u>Standard</u> <u>ATP</u> <u>Rush</u>	<input type="checkbox"/> <input checked="" type="checkbox"/>	Bacteria (only) Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Sample Condition Observed Temp. °C Corrected Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp.: <u>4.7°C</u>			Thermometer ID # <u>413</u> <u>#740</u>	<input checked="" type="checkbox"/>		
				Correction Factor: <u>-0.6°C</u>			

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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

November 04, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/01/24 12:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in 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: 11/01/2024  
Reported: 11/04/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 01 0.5' (H246677-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.12	106	2.00	4.62	
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.07	104	2.00	5.61	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.18	103	6.00	6.01	
Total BTX	<0.300	0.300	11/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	11/02/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	625	10.0	11/01/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	120	10.0	11/01/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 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: 11/01/2024  
Reported: 11/04/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 02 0.5' (H246677-02)**

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	11/02/2024	ND	2.12	106	2.00	4.62	
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.07	104	2.00	5.61	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.18	103	6.00	6.01	
Total BTEX	<0.300	0.300	11/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	4880	16.0	11/03/2024	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	11/01/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	155	10.0	11/01/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	25.7	10.0	11/01/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

Cardinal Laboratories

\*=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: 11/01/2024  
Reported: 11/04/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 03 0.5' (H246677-03)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.12	106	2.00	4.62	
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.07	104	2.00	5.61	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.18	103	6.00	6.01	
Total BTX	<0.300	0.300	11/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	3480	16.0	11/03/2024	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	11/01/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	1420	10.0	11/01/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	289	10.0	11/01/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

\*=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: 11/01/2024  
Reported: 11/04/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 04 0.5' (H246677-04)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.12	106	2.00	4.62	
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.07	104	2.00	5.61	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.18	103	6.00	6.01	
Total BTX	<0.300	0.300	11/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	3600	16.0	11/03/2024	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	11/01/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	<10.0	10.0	11/01/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	11/01/2024	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 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: 11/01/2024  
Reported: 11/04/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 05 0.5' (H246677-05)**

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	11/02/2024	ND	2.12	106	2.00	4.62	
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.07	104	2.00	5.61	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.18	103	6.00	6.01	
Total BTEX	<0.300	0.300	11/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	2040	16.0	11/03/2024	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	11/01/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	122	10.0	11/01/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	16.1	10.0	11/01/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 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: 11/01/2024  
Reported: 11/04/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 06 0.5' (H246677-06)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2024	ND	2.12	106	2.00	4.62	
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05	
Ethylbenzene*	<b>0.203</b>	0.050	11/02/2024	ND	2.07	104	2.00	5.61	GC-NC1
Total Xylenes*	<b>2.33</b>	0.150	11/02/2024	ND	6.18	103	6.00	6.01	GC-NC1
Total BTEX	<b>2.53</b>	0.300	11/02/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 233 % 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	<b>2400</b>	16.0	11/03/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>320</b>	10.0	11/01/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	<b>4590</b>	10.0	11/01/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	<b>588</b>	10.0	11/01/2024	ND					

Surrogate: 1-Chlorooctane 153 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 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: 11/01/2024  
Reported: 11/04/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 07 0.5' (H246677-07)**

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	11/02/2024	ND	2.12	106	2.00	4.62	
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.07	104	2.00	5.61	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.18	103	6.00	6.01	
Total BTEX	<0.300	0.300	11/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	2200	16.0	11/03/2024	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	11/01/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	226	10.0	11/01/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	55.1	10.0	11/01/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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: 11/01/2024  
Reported: 11/04/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 08 0.5' (H246677-08)**

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	11/02/2024	ND	2.12	106	2.00	4.62	
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.07	104	2.00	5.61	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.18	103	6.00	6.01	
Total BTEX	<0.300	0.300	11/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	11/03/2024	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	11/02/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	608	10.0	11/02/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	113	10.0	11/02/2024	ND					

Surrogate: 1-Chlorooctane 110 % 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: 11/01/2024  
Reported: 11/04/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 09 0.5' (H246677-09)**

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	11/02/2024	ND	2.12	106	2.00	4.62	
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05	
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.07	104	2.00	5.61	
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.18	103	6.00	6.01	
Total BTEX	<0.300	0.300	11/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	11/03/2024	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	11/02/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 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: 11/01/2024  
Reported: 11/04/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 10 0.5' (H246677-10)**

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	11/02/2024	ND	2.12	106	2.00	4.62		
Toluene*	<0.050	0.050	11/02/2024	ND	2.06	103	2.00	5.05		
Ethylbenzene*	<0.050	0.050	11/02/2024	ND	2.07	104	2.00	5.61		
Total Xylenes*	<0.150	0.150	11/02/2024	ND	6.18	103	6.00	6.01		
Total BTEX	<0.300	0.300	11/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	11/03/2024	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	11/02/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					

Surrogate: 1-Chlorooctane 105 % 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: 11/01/2024  
Reported: 11/04/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 11 0.5' (H246677-11)**

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	11/01/2024	ND	2.23	112	2.00	1.89	
Toluene*	<0.050	0.050	11/01/2024	ND	2.42	121	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/01/2024	ND	2.51	126	2.00	6.61	
Total Xylenes*	<0.150	0.150	11/01/2024	ND	7.52	125	6.00	7.29	
Total BTEX	<0.300	0.300	11/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/03/2024	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	11/02/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 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: 11/01/2024  
Reported: 11/04/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 12 0.5' (H246677-12)**

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	11/01/2024	ND	2.23	112	2.00	1.89	
Toluene*	<0.050	0.050	11/01/2024	ND	2.42	121	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/01/2024	ND	2.51	126	2.00	6.61	
Total Xylenes*	<0.150	0.150	11/01/2024	ND	7.52	125	6.00	7.29	
Total BTEX	<0.300	0.300	11/01/2024	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	<16.0	16.0	11/03/2024	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	11/02/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 11/01/2024  
Reported: 11/04/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 13 0.5' (H246677-13)**

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	11/01/2024	ND	2.23	112	2.00	1.89	
Toluene*	<0.050	0.050	11/01/2024	ND	2.42	121	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/01/2024	ND	2.51	126	2.00	6.61	
Total Xylenes*	<0.150	0.150	11/01/2024	ND	7.52	125	6.00	7.29	
Total BTEX	<0.300	0.300	11/01/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/03/2024	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	11/02/2024	ND	198	99.1	200	3.45	
DRO >C10-C28*	<10.0	10.0	11/02/2024	ND	200	100	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	11/02/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 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: 11/01/2024  
Reported: 11/04/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 10/31/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 14 0.5' (H246677-14)**

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	11/01/2024	ND	2.23	112	2.00	1.89	
Toluene*	<0.050	0.050	11/01/2024	ND	2.42	121	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/01/2024	ND	2.51	126	2.00	6.61	
Total Xylenes*	<0.150	0.150	11/01/2024	ND	7.52	125	6.00	7.29	
Total BTEX	<0.300	0.300	11/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	11/03/2024	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	11/04/2024	ND	199	99.7	200	2.80	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	197	98.6	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 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

---

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

[illegible]





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

November 26, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/22/24 12:06.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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: 11/22/2024  
Reported: 11/26/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 06 B 5' (H247176-01)**

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2024	ND	2.08	104	2.00	7.12	
Toluene*	<0.050	0.050	11/23/2024	ND	2.01	101	2.00	3.67	
Ethylbenzene*	<0.050	0.050	11/23/2024	ND	2.08	104	2.00	3.84	
Total Xylenes*	<0.150	0.150	11/23/2024	ND	6.24	104	6.00	3.26	
Total BTX	<0.300	0.300	11/23/2024	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	112	16.0	11/25/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2024	ND	205	103	200	3.25	
DRO >C10-C28*	31.5	10.0	11/23/2024	ND	192	96.0	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	11/23/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

### Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

Project Manager: Ben Bell

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: 949 854 0852

Project #: 03C15548559

Project Name: Row 5 West Sub-station

Project Location: 32.142303, -103.9071374

Sampler Name: Joshua Boxley

BILL TO

ANALYSIS REQUEST

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

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chlorides

TPH

BTEX

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Relinquished By:

Date:

Time:

Relinquished By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp.: °C

Corrected Temp.: °C

Sample Condition

Cool Intact

CHECKED BY:

(Initials)

Turnaround Time:

Standard

Rush

Thermometer ID

Bacteria (only)

Cool Intact

Sample Condition

Observed Temp.: °C

Corrected Temp.: °C

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

1 of 1



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

---

November 26, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/22/24 12:06.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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: 11/22/2024  
Reported: 11/26/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 08 B 6' (H247175-01)**

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2024	ND	2.08	104	2.00	7.12	
Toluene*	<0.050	0.050	11/23/2024	ND	2.01	101	2.00	3.67	
Ethylbenzene*	<0.050	0.050	11/23/2024	ND	2.08	104	2.00	3.84	
Total Xylenes*	<0.150	0.150	11/23/2024	ND	6.24	104	6.00	3.26	
Total BTX	<0.300	0.300	11/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	11/25/2024	ND	448	112	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2024	ND	205	103	200	3.25	
DRO >C10-C28*	16.0	10.0	11/23/2024	ND	192	96.0	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	11/23/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





---

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---

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

Released to Imaging: 1/6/2025 3:16:07 PM



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

---

November 26, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: ROW 5 WEST SUB - STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/22/24 12:06.

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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 "Mike Snyder".

Mike Snyder For 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: 11/22/2024  
Reported: 11/26/2024  
Project Name: ROW 5 WEST SUB - STATION  
Project Number: 03C1558559  
Project Location: XTO 32.1142303-103.9071374

Sampling Date: 11/21/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: BH 08 C 9' (H247174-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2024	ND	2.08	104	2.00	7.12	
Toluene*	<0.050	0.050	11/23/2024	ND	2.01	101	2.00	3.67	
Ethylbenzene*	<0.050	0.050	11/23/2024	ND	2.08	104	2.00	3.84	
Total Xylenes*	<0.150	0.150	11/23/2024	ND	6.24	104	6.00	3.26	
Total BTX	<0.300	0.300	11/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	11/25/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2024	ND	205	103	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/23/2024	ND	192	96.0	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	11/23/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

QUESTIONS

Action 416412

**QUESTIONS**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 416412
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2428259758
Incident Name	NAPP2428259758 ROW 5 WEST BOOSTER STATION @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Row 5 West Booster Station
Date Release Discovered	10/08/2024
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: Equipment Failure   Pump   Produced Water   Released: 187 BBL   Recovered: 0 BBL   Lost: 187 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 416412

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 416412
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 01/02/2025
--	--

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QUESTIONS, Page 3

Action 416412

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  416412
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

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

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	4880
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	5498
GRO+DRO (EPA SW-846 Method 8015M)	4910
BTEX (EPA SW-846 Method 8021B or 8260B)	2.5
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	02/27/2025
On what date will (or did) the final sampling or liner inspection occur	04/28/2025
On what date will (or was) the remediation complete(d)	04/28/2025
What is the estimated surface area (in square feet) that will be reclaimed	72456
What is the estimated volume (in cubic yards) that will be reclaimed	10734
What is the estimated surface area (in square feet) that will be remediated	72456
What is the estimated volume (in cubic yards) that will be remediated	10734
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 416412

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  416412
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 01/02/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 416412

QUESTIONS (continued)

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  416412
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 416412

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 416412
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	402949
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/22/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	4000

**Remediation Closure Request**

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 416412

CONDITIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  416412
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance request to collect floor samples every 400 ft2 is approved. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the work plan has been reviewed	1/6/2025