

May 8, 2024

New Mexico Oil Conservation Division

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

Re: Closure Request

PLU 21 Brushy Draw CTB

Incident Number nAPP2405336143

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document site assessment, excavation, and soil sampling activities performed at the PLU 21 Brushy Draw CTB (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of crude oil and produced water at the Site. Based on excavation activities and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing remediation that has occurred, requesting a closure criteria variance, and requesting no further remediation for Incident Number nAPP2405336143.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit N, Section 21, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.11083,°, -103.88852°) and is associated with oil and gas exploration and production operations on private land owned by Janey Paschal.

On February 8, 2024, corrosion on a 6-inch pipeline resulted in the release of approximately 3.0 barrels (bbls) of crude oil and 5.0 bbls of produced water onto the surface of the well pad and around active production equipment and pipelines. A vacuum truck was immediately dispatched to recover free-standing fluids; approximately 4.0 bbls of released fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on February 22, 2024. The release was assigned Incident Number nAPP2405336143.

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.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 320628103533001, located approximately 0.27 miles southwest of the Site. The most recently reported depth to groundwater measurement in the well was collected on January 28, 1998, and documented as 264 feet bgs. The total

depth of the well is 288 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendices A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 452 feet east of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Potential Site receptors are identified on Figure 1.

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

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

The NMOCD prefers the nearest depth to groundwater measurement used to determine Closure Criteria be less than 25 years old and within ½ mile of the Site. The USGS water well data is within ½ mile, but 26 years old. Based on the lack of sensitive receptors at the Site, the Site not being underlain by unstable geology, and nearby depth to groundwater data estimating regional depth to groundwater to be greater than 100 feet bgs in multiple directions of the Site, XTO is requesting a variance for the preferred age of the nearest depth to groundwater data guideline. The nearest depth to groundwater data includes:

- Groundwater wells USGS 320628103533001 (above-mentioned), USGS 320629103533002, and USGS 320629103533001, located within a few feet from one another, all have a most recent recorded depth to groundwater of 264 feet bgs. The wells are located 0.27 miles southwest of the Site and most recent measurements were collected on January 28, 1998, November 6, 1992, and February 5, 1959, respectively;
- Soil boring C-4730, permitted by New Mexico Office of the State Engineer (NMOSE) and located 0.96 miles southeast of the Site, was a soil boring completed completed to determine depth to water on April 17, 2024. The soil boring was drilled via air rotary and advanced to a depth of 105 feet bgs. No groundwater was encountered during the drilling and the borehole was dry;
- Groundwater well C-3832, was permitted by NMOSE with a recorded depth to groundwater of 277 feet bgs on January, 17, 2015. It is located 1.14 miles south of the Site;
- Soil boring C-4758, permitted by NMOSE and located 0.98 miles northwest of the Site, was a soil boring completed completed to determine depth to water on August 8, 2024. The soil boring was drilled via air rotary and advanced to a depth of 110 feet bgs. No groundwater was encountered during the drilling and the borehole was dry; and
- NMOSE monitoring well C-02441 located 0.36 miles northeast of the Site was not drilled, as indicated on page 4 of the drilling permit.



While all nearby USGS water wells are older than the NMOCD preferred age for reference data, historical data from the wells demonstrate depth to groundwater fluctuated only ±30 feet over a 40-year period in well 320628103533001, and ±4 feet over a 43-year period in well 320629103533002. USGS well 320629103533001 was only measured one time. USGS well 320628103533001 only exceeds the NMOCD recommended age of depth to groundwater data by 16 months. Additionally, soil boring C-4730, located 0.96 miles southeast of the Site, was dry to 105 feet bgs in April 2024, soil boring C-4758. located 0.98 miles northwest of the Site, was dry to 110 feet bgs in August 2024, and well C-3832, located 1.14 miles south of the Site, indicates a depth to water of 277 feet bgs recorded in January 2015. The regional depth to groundwater data mentioned above is historically and laterally consistent and, therefore, equally protective of the public, the environment, and groundwater as compared to the preferred guideline for age (less than 25 years) and range (1/2 mile) of referenced water well data. Ensolum believes the data listed above can reasonably and accurately be used to estimate depth to groundwater at the Site to be greater than 100 feet bgs. Based on the above-mentioned findings, XTO requests NMOCD consider a variance for use of water well data that is greater than 25 years old for estimating of depth to groundwater. All Well Logs used for the depth to groundwater investigation are included in Appendix A.

SITE ASSESSMENT ACTIVITIES

On March 5, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Five delineation soil samples (SS01 through SS05) were collected at a depth of 0.5 feet bgs. Delineation soil sample SS01 was collected within the release extent area and SS02 through SS05 were collected outside the release extent to assess the lateral extent of the release. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) chloride using Hach® chloride QuanTab® test strips. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method SM4500. Soil samples delivered to the laboratory the same day they are collected may not have equilibrated to the 6 degrees Celcius required for shippment and long term storage, but are considered to have been received in acceptable condition by the laboratory.

Laboratory analytical results for all delineation soil samples collected indicated all COC concentrations were within the Site Closure Criteria; however, soil sample SS01 contained an elevated chloride concentration (6,700 mg/kg), confirming the presence of waste-containing soil. Based on visible staining within the release area and laboratory analytical results for SS01, delineation and excavation activities appeared to be warranted.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On March 18, 2024, Ensolum returned to the Site to conduct additional delineation and oversee excavation activities. Utilizing a hand auger, two boreholes (BH01 and BH02) were advanced within the release extent area to investigate the vertical extent of the release. Borehole BH01 was advanced in the vicinity of soil sample SS01 to a depth of 1-foot bgs. Borehole BH02 was advanced to a depth of 4 feet



bgs. Discrete soil samples were collected at 0.5 feet bgs in BH02 and the terminal depth of each borehole. Four additional delineation soil samples (SS06 through SS09) were collected at 0.5 feet bgs to provide additional lateral definition. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. Soil was excavated from the release area as indicated by delineation soil sample laboratory analytical results and field screening results. Excavation activities were performed utilizing a backhoe and transport vehicles. The excavation occurred on the well pad and was separated into two excavations due to the presence of active production equipment and pipelines located within the release.

Following removal of the waste-containing soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavated areas. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 and FS02 were collected from the floor of the excavated areas at 1-foot bgs. Confirmation soil samples SW01 through SW04 were collected from the sidewalls of the excavated areas at depths ranging from the ground surface to 1-foot bgs. The excavation confirmation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation confirmation soil sample locations are presented on Figure 3. Photographic documentation of the excavation is included in Appendix B.

The final excavation extent measured between the two excavated areas was approximately 170 square feet. A total of approximately 10 cubic yards of waste-containing soil was removed during the excavation activities. The soil was transported and properly disposed of at R360 Landfill Disposal Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation and final confirmation soil samples collected indicated all COC concentrations are compliant with the Site Closure Criteria. Waste-containing soil was present as indicated by elevated chloride concentrations in delineation soil samples SS01 and BH02 collected at 0.5 feet bgs, and confirmation sidewall soil samples SW03 and SW04. Delineation soil sample SS01 was removed during excavation activities. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the February 2024, release of crude oil and produced water. Excavation activities were conducted to remove waste-containing soil to the maximum extent practicable (MEP) without compromising the stability of active production equipment and pipelines, and worker safety. Laboratory analytical results for excavation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with the Closure Criteria. All accessible waste-containing soil exceeding the reclamation requirement has been removed. An estimated 68 cubic yards of waste-containing soil remains on pad, immediately adjacent to or beneath active production equipment and pipelines in the vicinity of borehole BH02. The remaining soil is delineated to the reclamation requirement by BH02A, and SS04, SS06 through SS09, and will be reclaimed during pad abandonment or any major facility reconstruction. The area where soil concentrations exceed the reclamation requirement is presented on Figure 3. Based on laboratory analytical results, no further remediation is required at this time. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing Site conditions. Areas pending reclamation will be completed during pad abandonment or major facility reconstruction.



Excavation of soil has mitigated impacts at this Site. Depth to groundwater is estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2405336143.

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

Sincerely, **Ensolum, LLC**

Benjamin J. Belill Senior Geologist Ashley L. Ager, M.S., P.G. Principal

ashley L. ager

cc: Amy Ruth, XTO

Amanda Garcia, XTO Janey Paschal

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

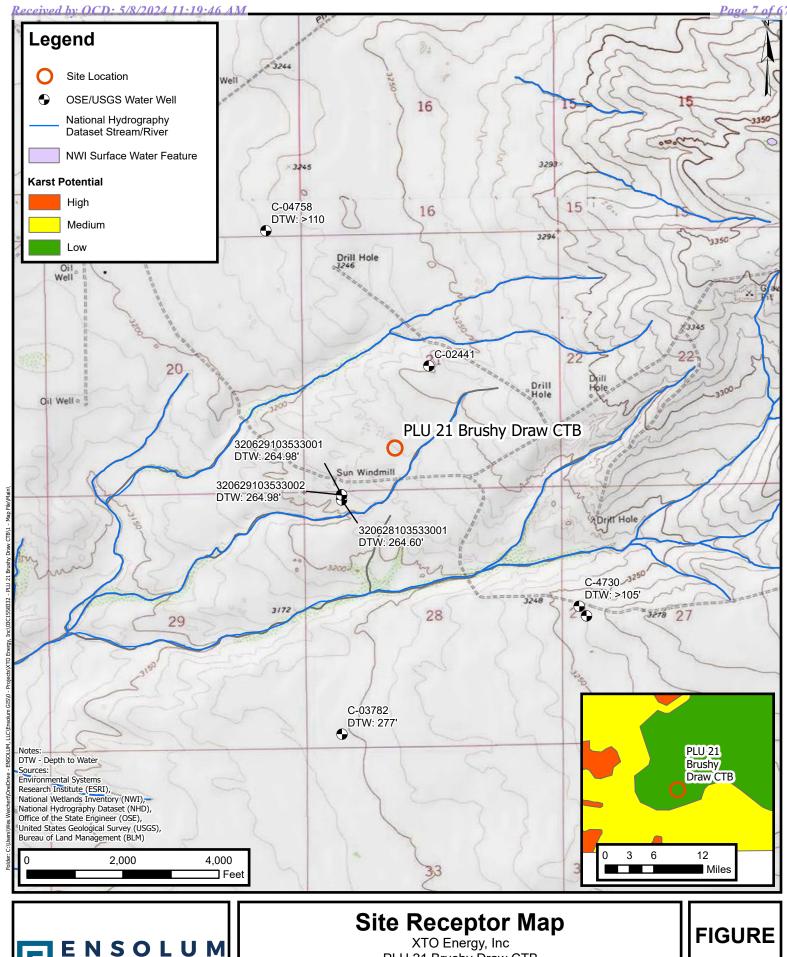
Appendix B Photographic Log

Appendix C Lithologic / Soil Sampling Logs

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



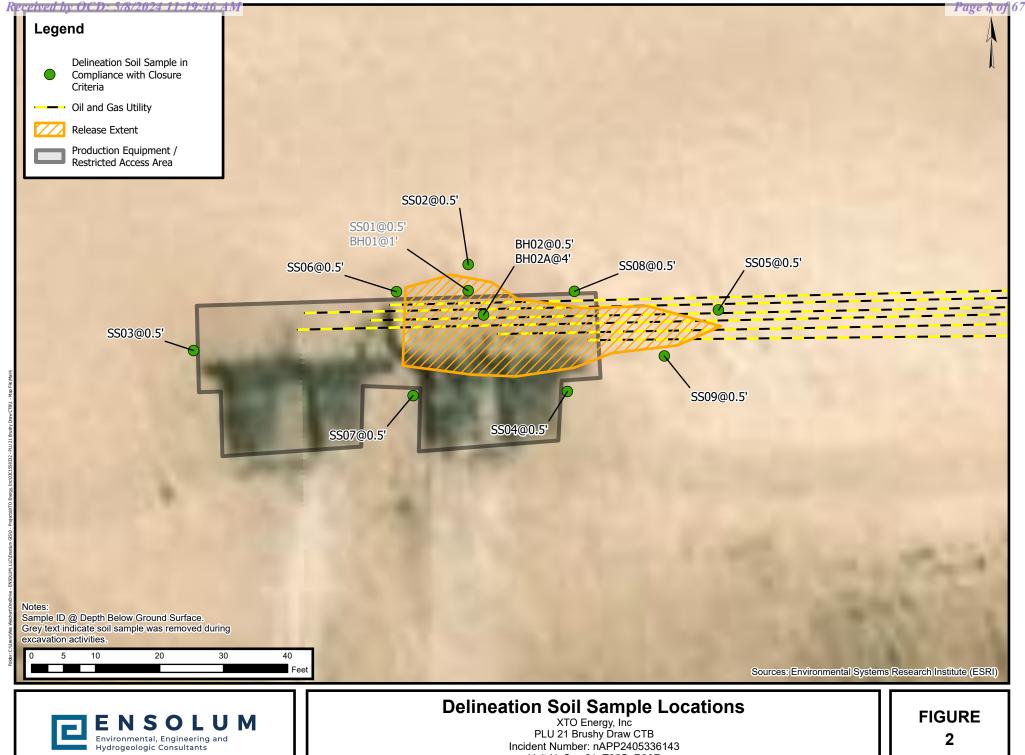
FIGURES



Environmental, Engineering and Hydrogeologic Consultants

Released to Imaging: 5/30/2024 3:49:25

PLU 21 Brushy Draw CTB Incident Number: nAPP2405336143 Unit N, Sec 21, T25S, R30E Eddy County, New Mexico

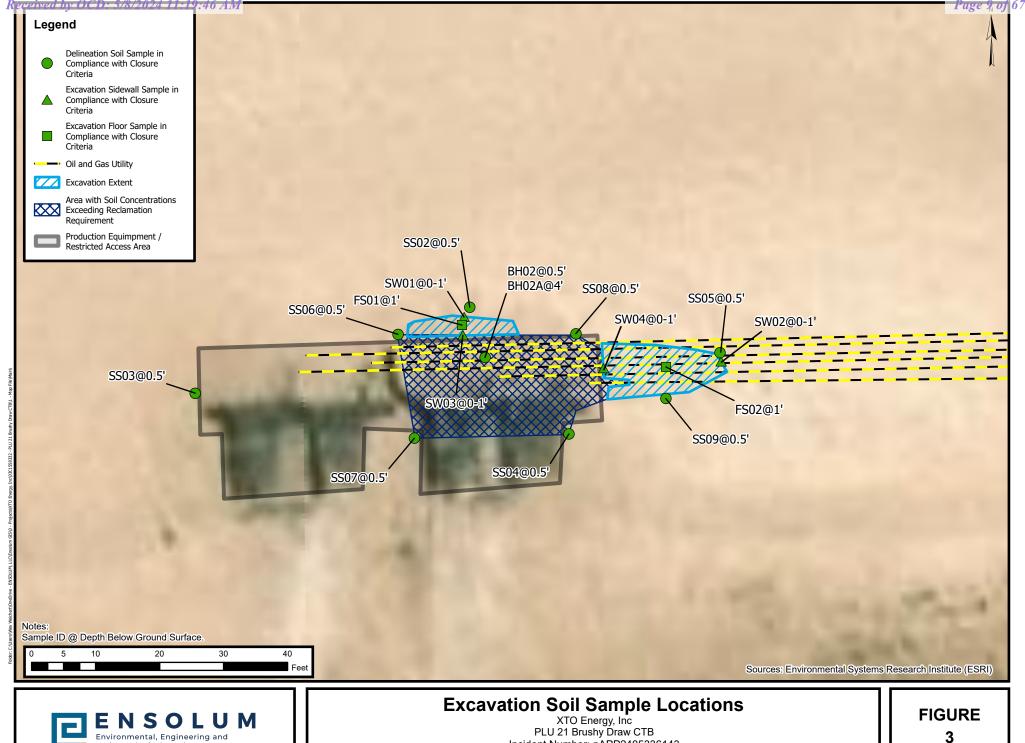




Released to Imaging: 5/30/2024 3:49:25 PM

Unit N, Sec 21, T25S, R30E Eddy County, New Mexico

2





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3



TABLES

Received by OCD: 5/8/2024 11:19:46 AM



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 21 Brushy Draw CTB XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delir	neation Soil Sa	mples				<u> </u>
SS01	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,700
BH01	03/18/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
BH02	03/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	67.8	<10.0	67.8	4,080
BH02A	03/18/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS02	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS03	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS04	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS05	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS06	03/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS07	03/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS08	03/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS09	03/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
				Confi	rmation Soil Sa	ımples				
FS01	03/18/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS02	03/18/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW01	03/18/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW02	03/18/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW03	03/18/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,000
SW04	03/18/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,960

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in $\ensuremath{\textbf{bold}}$ 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

Ensolum



APPENDIX A

Referenced Well Records



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USGS Water Resources

Data Category: Groundwater United States **∨** GO

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 320628103533001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320628103533001 25S.30E.21.333424

Eddy County, New Mexico

Table of data Tab-separated data

1998-01-28

1998-01-28

Latitude 32°06'28", Longitude 103°53'30" NAD27

Land-surface elevation 3,207 feet above NAVD88

The depth of the well is 288 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Graph of da	<u>ata</u>									
Reselect pe	eriod									
Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1958-08-2	21	D	62610		2972.36	NGVD29	1	Z		
1958-08-2	21	D	62611		2974.00	NAVD88	1	Z		
1958-08-2	21	D	72019	233.00			1	Z		
1959-02-0)5	D	62610		2939.26	NGVD29	Р	Z		
1959-02-0)5	D	62611		2940.90	NAVD88	Р	Z		
1959-02-0)5	D	72019	266.10			Р	Z		
1983-02-0)1	D	62610		2945.48	NGVD29	1	Z		
1983-02-0)1	D	62611		2947.12	NAVD88	1	Z		
1983-02-0)1	D	72019	259.88			1	Z		
1998-01-2	28	D	62610		2940.76	NGVD29	1	S		

Exn	lanation
LAP	ianation

2942.40

NAVD88

1

S

S

Section Code Description

D

D

62611

72019

264.60

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	Р	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2024-05-01 13:23:32 EDT

0.3 0.26 nadww01





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Groundwater	~	United States	~	GO

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

320629103533002

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320629103533002 25S.30E.21.33342 A

Eddy County, New Mexico

Table of data Tab-separated data

Latitude 32°06'29", Longitude 103°53'30" NAD27

Land-surface elevation 3,209 feet above NAVD88

The depth of the well is 280 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Graph of da	ata .									
Reselect pe	riod									
Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measure
1949-03-1	.0	D	62610		2939.36	NGVD29	Р		Z	
1949-03-1	.0	D	62611		2941.00	NAVD88	Р		Z	
1949-03-1	.0	D	72019	268.00			Р		Z	
1992-11-0	16	D	62610		2942.38	NGVD29	Р		S	
1992-11-0	16	D	62611		2944.02	NAVD88	Р		S	
1992-11-0	16	D	72019	264.98			Р		S	

Explanation

Code	Description
D	Date is accurate to the Day
62610	Groundwater level above NGVD 1929, feet
62611	Groundwater level above NAVD 1988, feet
72019	Depth to water level, feet below land surface
NAVD88	North American Vertical Datum of 1988
NGVD29	National Geodetic Vertical Datum of 1929
	D 62610 62611 72019 NAVD88

Section	Code	Description
Status	Р	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 320629103533001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320629103533001 25S.30E.21.33342

Eddy County, New Mexico

Table of data

Latitude 32°06'29", Longitude 103°53'30" NAD27

Land-surface elevation 3,209 feet above NAVD88

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Tab-separat	ab-separated data									
Graph of data										
Reselect period										
Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measurin agency	? Source (measure
1959-02-0	5	D	62610		2944.36	NGVD29	1	L	Z	
1959-02-0	5	D	62611		2946.00	NAVD88	1	L	Z	
1959-02-0	5	D	72019	263.00			1	_	Z	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
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Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined

Section Code **Description** Α Approved for publication -- Processing and review completed. Water-level approval status

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Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2024-05-01 17:23:42 EDT

0.36 0.3 nadww02

USA.gov

											Sample Name: C-4730 (BH01)	Date: 4/17/2023		
											Site Name: PLU 27 Brushy Draw 1			
Ľ	_					N	3	U	L U	IV	Incident No: NAPP2217546910 &			
											Job Number: 03c1558091			
				LITH	IOL	OGI	C / SOIL	SAMPLING	G LOG		Logged By: MR	Method: Air Rotary		
Coo	rdi	nates	: 32	2.101	.64,-	103.8	37624				Hole Diameter: 6" dia.	Total Depth: 105' bgs.		
Com	nme	ents/	We	II Coı	nstrı	uction	n: no field	screening co	nducted, lith	ology des	criptions/observations only. Total	depth to 105' bgs, dry hole.		
Moisture	Content	Chloride	(mdd)	Vapor	(mdd)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions		
								0.5	0	CCHE	0-40', CALICHE, dry, light b poorly sorted, some fine sand.	rown-off white, to medium grain		
								10	10		@10', some coarse gravel			
								20	20					
								30	30					
								40	40	SC	40'-80', CLAYEY SAND, dry, poorly sorted, fine to me	, dry, reddish brown, to medium grain.		
								50	50					
								60	60					
								70	70					
								80	80		@80', light brown.			
								90	90					
								100 <u> </u>	100					
								110	110	TD	Total depth at 105 feet bgs	<u>.</u>		
								<u>-</u>	 					

											Sample Name: C-4758 (BH01)	Date: 8/08/2023				
		П								B.4	Site Name: PLU PC 17 BATTERY	Date. 6/06/2023				
										Incident Number: nAPP2233951574						
										Job Number: 03C1558215						
Cod	ard:	nata					3.897084	SAIVIPLING	LOG		Logged By: M. O'Dell/S. Welvang	Method: Air Rotary Rig Total Depth: 110'				
								du ata d			Hole Diameter: N/A	Total Deptil. 110				
Cor	mm	ents	: NO	пеіа	scre	eening	g was cond	листеа.		r						
Moisture	Chloride (ppm) Vapor (ppm) Staining Sample ID Debth (tt pds) USCS/Rock Symbol								· ·	Lithologic Des	criptions					
								1	0							
								- - - -	10	ССНЕ	0-10'. Caliche w/sand. Tan to to fine grained, well graded, subangular grains, dry.					
			20 SW							SW	10-20'. Sand. Reddish brown grained, subrounded to subwell graded, trace CCHE, dry	angular grains,				
								-	30	SW	20-30'. Sand w/CCHE mixture. Very fine to fine grained, CCHE medium to coarse grains, sand reddish brown, tan to light brown CCHE					
								- -	40	SC	Well graded. 30-50'. Clayey sand w/ grave fine grained, gravel small gr	el. Brown, very fine to ained, trace CCHE, dry.				
								- - -	50							
								- - -	60	SP	50-80'. Sand, brown (trace r fine grained, poorly graded, subangular, dry.					
								- - -								
								- -	80		80-90'. Sand. Yellowish tan, grained, poorly graded, trac sand, trace CCHE, dry.					
								- -	90		90'-110'. Sand. Brownish red grained, poorly graded, subd dry.					
								- - -	100							
									110		110': stopped drilling and se	t casing to 110'.				
_									TD a	at 110' k	ogs.					

PEAD INSTRUCTIONS ON BACK

2.02087 Page 21 of 67

Revised June 1991

APPLICATION TO APPROPRIATE UNDERGROUND WATERS IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

'95 MAR 21 PM 12 54 465	5//
1. Name and mailing address of applicant: STATE ENGINEER OFFICE	;
Byron W. Paschaganta FE NEW MEXICO	
Box 1847	
PECOS 1X 79772 Received: March 17, 1995	
2. Describe well location under one of the following subheadings:	
a 4 4 S 1/2 A of Sec. 21 Twp. 25 South Rge. 30 East NMPM, in Eddy County.	.ura
b. X = feet, Y = feet, New Mexico Coordinate System Grant.	,
3. Approximate depth (if known)	1
Name of driller (if known)	<u>.</u> !
4. Use of water (check use applied for):	
One household, non-commercial trees, lawn and garden not to exceed one acre.	
Livestock watering.	
More than one household, non-commercial trees, lawns and gardens not to exceed a total of one acre.	3 33
Drill and test a well intended to be used for domestic, drinking and sanitary or stock water purposes in conjunction with the building or dwelling unit.	053 60
Drinking and sanitary purposes and the irrigation of non-commercial trees, shrubs and lawns in conjunction with a commercial operation.	
Prospecting, mining or drilling operations to discover or develop natural resources.	
Construction of public works, highways and roads.	
If any of the last three items were marked, give name and nature of business under Remarks (Item 5).	
5. Remarks:	
I, Byrew W P35Ch2/, affirm that the foregoing statements are true to the best of my knowledge and belief and that development shall not commence until approval of the permit has been obtained.	
Byron W. Paschal, Applicant 3/14/95	
By: Date:	,
bate:	
ACTION OF STATE ENGINEER	
This application is approved for the use indicated, subject to all general conditions and to specific conditions numbered $\frac{1 \& 4}{}$ on the reverse side hereof. This permit will automatically expire unless this well is drilled or driven and the well record filed on or before	
March 31, 1996	
Donald T. Lopez, Acting State Engineer Redict x Mendines x State Programmer By:	
Richard C. Cibak, Area Supervisor	
Date: March 20 , 1995 File No. C-2441	

WR Filed:

Released to Imaging: 5/30/2024 3:49:25 PM

***PLEASE NOTE GENERAL CONDITION OF APPROVAL "B"





GENERAL CONDITIONS OF APPROVAL

- A. The maximum amount of water that may be appropriated under this permit is 3 acre-feet in any year.
- B. The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eights (2 3/8) inches outside diameter (Section 72-12-12).
- C. Driller's well record must be filed with the State Engineer within 10 days after the well is drilled or driven. Failure to file the well record within that time shall result in automatic cancellation of the permit. Well record forms will be provided by the State Engineer upon request.
- D. The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- E. If the well under this permit is used at any time to serve more than one household or livestock in a commercial feed lot operation, or for drinking and sanitation purposes in conjunction with a commercial operation, the permittee shall comply with Specific Conditions of Approval number 5(b).
- F. In the event this well is combined with other wells permitted under Section 72-12-1 New Mexico Statutes Annotated, the total outdoor use shall not exceed the irrigation of one acre of non-commercial trees, lawn, and garden, or the equivalent outside consumptive use, and the total appropriation for household and outdoor use from the entire water distribution system shall not exceed 3 acre-feet in any year.
- G. If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.

SPECIFIC CONDITIONS OF APPROVAL

(Applicable only when so indicated on the other side of this form.)

- 1. Depth of the well shall not exceed the thickness of the (a) valley fill or (b) Ogallala formation.
- The well shall be constructed to artesian well specifications and the State Engineer shall be notified before casing is landed or cemented.
- Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.
- Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
- 5. A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor: (a) for each calendar month, on or before the 10th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 10th day of January of the following year.
- 6. The well shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 10 days.
- 7. Final approval for the use of the well shall be dependent upon a leakage test made by the State Engineer.
- 8. Use shall be limited strictly to household, drinking and sanitary purposes; water shall be conveyed from the well to the place of use in closed conduit and the effluent returned to the underground so that it will not appear on the surface. No irrigation of lawns, gardens, trees or use in any type of pool or pond is authorized under this permit.
- 9. No water shall be used from this well unless and until a permit has been issued to an applicant who intends to use the water for any of the purposes described in § 72-12-1.

INSTRUCTIONS

The application shall be made in the name of the actual user of the well for the purpose specified in the application.

The application shall be filed in triplicate and forwarded with a \$5.00 filing fee to the State Engineer.

A separate application must be filed for each well to be drilled or used.

If well to be used is an existing well, an explanation (and the file number, if possible) should be given under Remarks (Item 5).

Applications for appropriation, well records and requests for information in the following basins should be addressed to the State Engineer at the location indicated.

Bluewater, Estancia, Rio Grande, Sandia, Gallup and San Juan Basins District No. 1, 3311 Candelaria, NE, Suite A, Albuquerque, NM 87107

Capitan, Carlsbad, Curry County, Fort Summer, Hondo, Jal, Lea County, Penasco, Portales, Roswell, Tucumcari and Upper Pecos Basins <u>District No. 2, 1900 West Second Street, Roswell, NM 88201</u>

Animas, Gila-San Francisco, Lordsburg, Mimbres, Nutt-Hockett, Playas, San Simon and Virden Valley Basins District No. 3, P.O. Box 844, Deming, NM 88031

Lower Rio Grande, Tularosa, Hueco, Las Animas Creek and Hot Springs Basins District No. 4, 133 Wyatt Drive, Suite 3, Las Cruces, NM 88005

Canadian River Basin

State Engineer Office, P.O. Box 25102, Santa Fe, NM 87504-5102

B. Paschal

Box 1847

Pecas Fax 29772

AM

1996

AM

88263

State Engineer office

District 11-1900 west Second St.

Roswell, New Mario 88201-1712

C-2241

	Dear Sin, I did not drill the well.
	D. 00
	Ven sin,
	- ct did not drill the well.
	-0 1
	Thanks Byron Paschal
	Byron Paschal
	ROSWELL NEW MEXICO
	SER E
	P.L.
	~
	1241
-	
	·









STATE OF NEW MEXICO

STATE ENGINEER OFFICE

THOMAS C. TURNEY State Engineer ROSWELL

1900, West Second St.
Roswellb, New Mexico 88201
(505) 622-6521

ENGINEER OFFICER NEW MEXIC

April 1, 1996

FILE: C-2441

Byron W. Paschal Box 1847 Pecos, TX 79772

Dear Mr. Paschal:

Application for Permit to Appropriate Underground Waters in Accordance With Section 72-12-1 New Mexico Statutes, approved March 20, 1995, required that a well record be filed in this office on or before March 31, 1996. To date this instrument has not been filed.

If this well has been drilled, it is very important that you advise this office the date the well was drilled and the name of the driller.

If this well has not been drilled, please advise this office. This permit expired on the above date and it will be necessary that you file a new application if you wish to drill a well.

Sincerely

Richard C. Cibak Area Supervisor

tg

cc: Santa Fe





STATE OF NEW MEXICO

'95 MAR 21 PM 12 54

STATE ENGINEER OFFICE

DONALD STATE ENGINEER OFFICE LOREZ ACTING STATE ENGINEER MEXICO

ROSWELL

DISTRICT II 1900 West Second St. Roswell, New Mexico 88201 (505) 622-6521

March 17, 1995

FILE: C-2441

Byron W. Paschal Box 1847 Pecos, TX 79772

Dear Mr. Paschal:

Enclosed is your copy of Application to Appropriate Underground Waters in Accordance With Section 72-12-1 New Mexico Statutes, as numbered above, which has been approved subject to the conditions on the permit.

Please note General Condition of Approval "B", which states: "The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-1 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eights (2 3/8) inches outside diameter (Section 72-12-1).

Please see that the well driller files the well record in this office within 10 days after completion of drilling.

Your rights under this permit will expire on March 31, 1996, unless the well is drilled and well record is filed in this office on or before the above date.

Sincerely,

Richard C. Cibak Area Supervisor

tg Enclosure cc: Santa Fe



APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc PLU 21 Brushy Draw CTB Incident Number nAPP2405336143





Photograph: 1 Date: 3/5/2024

Description: Site assessment, release extent area.

View: West

Photograph: 2 Date: 3/5/2024 Description: Site assessment, release point area.

View: Southwest





Photograph: 3 Date: 3/15/2024

Description: Final excavation extent.

View: West

Photograph: 4 Date: 3/15/2024

Description: Final excavation extent.

View: East



APPENDIX C

Lithologic Soil Sampling Logs

ENSOLUM	Sample Name: BH01 Date: 3/14/2024 Site Name: PLU 21 Brushy Draw CTB									
Environmental, Engineering and Hydrogeologic Consultants	Incident Number: nAPP2405336143									
Hydrogeologic Consultants	Job Number: 03C1558332									
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CW Method: Hand Auge									
Coordinates: 32.110825, -103.888695	Hole Diameter: 3.5" 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. A 40% correction factor is included in all chloride field screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	
М	7,268	0.0	Υ	SS01	0.5	0	CCHE	0-1' CALICHE, tan, poorly sorted, medium grains, salt staining, no odor, moist.
D	<168	0.0	N	BH01	1 _	1	SP TD	1' SAND with silt, brown, very fine grained, no stain, no odor, dry. Total Depth @ 1' bgs.
					- -			700a. 20pa. C 2 3 3 0.
					- - -	- - -		
					- - -	 - -		
					- - -			
					- -	- - -		
					- - -	<u>-</u>		
					- - -	- - -		
					- - -	- - -		
					- - -	<u>-</u> -		
					- - -	- -		
					- - -	- - -		
					- -	† - -		
					-			

	Sample Name: BH02	Date: 3/15/2024			
ENSOLUM	Site Name: PLU 21 Brushy Draw CTB				
Environmental, Engineering and	Incident Number: nAPP2405336143				
Hydrogeologic Consultants	Job Number: 03C1558332				
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CW	Method: Hand Auger			
Coordinates: 32.110814, -103.888687	Hole Diameter: 3.5" 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. A 40% correction factor is included in all chloride field screenings.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M D	3,757 4,832	13.0 1.3	N N	BH02	0.5	0	CCHE	0-4' CALICHE, tan, poorly sorted, medium grains, no staining, no odor, moist.
D	2,481	0.0	N		- - - -	- ¹ - 2		
D	1,070	0.0	N		-	3		
D	200	0.1	N	BH02A	4 _	4		4' SAND with silt, brown, very fine grained, no stain, no odor, dry. Total Depth @ 4' bgs.
					- - -	- - -	TD	Total Depth @ 4' bgs.
					- - -			
					- - -	• - - -		
					- - -	-		
					- - - -	- - -		
					- - - -			
					<u>-</u>			



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



March 12, 2024

TACOMA MORRISSEY
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: PLU 21 BRUSHY DRAW CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/07/24 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/07/2024 Reported: 03/12/2024

Project Name: PLU 21 BRUSHY DRAW CTB

Project Number: 03C1558332

Project Location: XTO

Sampling Date: 03/05/2024

Sampling Type: Soil

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

Sample ID: SS 01 0.5' (H241157-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.19	109	2.00	0.168	
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149	
Total BTEX	<0.300	0.300	03/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6700	16.0	03/11/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	220	110	200	3.30	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	208	104	200	0.798	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					
Surrogate: 1-Chlorooctane	82.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.8	% 49.1-14	8						

Applyand By 14

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/07/2024 Sampling Date: 03/05/2024

Reported: 03/12/2024 Sampling Type: Soil

Project Name: PLU 21 BRUSHY DRAW CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558332 Shalyn Rodriguez

Project Location: XTO

Sample ID: SS 02 0.5' (H241157-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.19	109	2.00	0.168	
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149	
Total BTEX	<0.300	0.300	03/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/11/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	220	110	200	3.30	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	208	104	200	0.798	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					
Surrogate: 1-Chlorooctane	76.1 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.8 9	% 49.1-14	8						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/07/2024 Sampling Date: 03/05/2024 Reported: 03/12/2024 Sampling Type: Soil

Project Name: PLU 21 BRUSHY DRAW CTB Sampling Condition: Cool & Intact 03C1558332 Sample Received By: Shalyn Rodriguez Project Number:

Project Location: XTO

Sample ID: SS 03 0.5' (H241157-03)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.19	109	2.00	0.168	
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149	
Total BTEX	<0.300	0.300	03/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2 % 71.5-13		4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/11/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2024	ND	220	110	200	3.30	
DRO >C10-C28*	<10.0	10.0	03/09/2024	ND	208	104	200	0.798	
EXT DRO >C28-C36	<10.0	10.0	03/09/2024	ND					
Surrogate: 1-Chlorooctane	87.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.6	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/07/2024 Reported: 03/12/2024

PLU 21 BRUSHY DRAW CTB

Project Name: Project Number: 03C1558332

Project Location: XTO Sampling Date: 03/05/2024

Sampling Type: Soil

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

Sample ID: SS 04 0.5' (H241157-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.19	109	2.00	0.168	
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149	
Total BTEX	<0.300	0.300	03/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/11/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2024	ND	220	110	200	3.30	
DRO >C10-C28*	<10.0	10.0	03/09/2024	ND	208	104	200	0.798	
EXT DRO >C28-C36	<10.0	10.0	03/09/2024	ND					
Surrogate: 1-Chlorooctane	76.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.7	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/07/2024 Sampling Date: 03/05/2024

Reported: 03/12/2024 Sampling Type: Soil

Project Name: PLU 21 BRUSHY DRAW CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558332 Shalyn Rodriguez

Project Location: XTO

Sample ID: SS 05 0.5' (H241157-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.19	109	2.00	0.168	
Toluene*	<0.050	0.050	03/09/2024	ND	2.15	108	2.00	0.167	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.12	106	2.00	0.173	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.18	103	6.00	0.149	
Total BTEX	<0.300	0.300	03/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/11/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2024	ND	220	110	200	3.30	
DRO >C10-C28*	<10.0	10.0	03/09/2024	ND	208	104	200	0.798	
EXT DRO >C28-C36	<10.0	10.0	03/09/2024	ND					
Surrogate: 1-Chlorooctane	68.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.3	% 49.1-14	8						

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Celey D. Keine



Notes and Definitions

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

(575) 393-2326 FA	(575) 393-2326 FAX (575) 393-2476	201.70	ANALYSIS REQUEST
Company Name: Ensolum, LLC		DIE 10	
Ta		P.O. #:	
Address: 3122 National Parks Hwy	vy	Company: XTO Energy Inc.	nc.
Carlsbad	State: NM Zip: 88220		
Phone #: 337 257-8307		Address: 3104 E. Green St.	
m	Project Owner: XTO	city: Carlsbad	
Project Name: PLU 21 Brushy Draw CTB	aw CTB	State: NM Zip: 88220	
Project Location:		Phone #:	
Sampler Name: Connor Whitman		1	
Sampler Name: Comic Transcription	MATRIX	PRESERV. SAMPLING	6
FOR LAB USE ONLY			
Lab I.D. Sample I.D.	(feet) (G)RAB OR (C)OMI A# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TPH BTEX Chloride
5501	100	3/5/24	100
2 5502	0.5		1000
3 5503	5.0		410
HOSS H	MANAGEMENT		SIN
/\$	0.5	-	4
			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
PLEASE NOTE: Liability and Damages. Cardinal's liability and analyses. All claims including those for negligence and any of analyses. All claims including those for incidental or co	pLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the pLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client is subsidiaries, analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including the client is subsidiaries, analyses. All claims include the included the contract of	act or tort, shall be limited to the amount paid be and received by Cardinal within 30 days after cons, loss of use, or loss of profits incurred by effects, loss of use, or loss of profits incurred by effects.	
Relinquished By:	noe of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above susce. Date: Time: Time:	am is based upon any of the above suareu reas	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address: TMorrissey@ensolum.com
Relinquished By:	Date: Received By:	J	PP2405336143 Standard A Bacteria (only) S
Delivered By: (Circle One)	Observed Temp. °C Cool Intack Cool Intack Yes Yes	CHECKED BY:	
Sampler - UPS - Bus - Other:	N S	No 0	I NO I NO



March 22, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 21 BRUSHY DRAW CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/18/24 12:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

 Received:
 03/18/2024
 Sampling Date:
 03/14/2024

 Reported:
 03/22/2024
 Sampling Type:
 Soil

Project Name: PLU 21 BRUSHY DRAW CTB Sampling Condition: Cool & Intact
Project Number: 03C1558332 Sample Received By: Tamara Oldaker

Applyand By 14

Project Location: XTO

Sample ID: SS 06 0.5' (H241379-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2024	ND	2.17	109	2.00	0.305	
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261	
Total BTEX	<0.300	0.300	03/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	206	103	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	202	101	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					
Surrogate: 1-Chlorooctane	87.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.2	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 03/18/2024 Sampling Date: 03/14/2024

Reported: 03/22/2024 Sampling Type: Soil

Project Name: PLU 21 BRUSHY DRAW CTB Sampling Condition: Cool & Intact
Project Number: 03C1558332 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO

Sample ID: SS 07 0.5' (H241379-02)

RTFY 8021R

B1EX 8021B	mg,	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2024	ND	2.17	109	2.00	0.305	
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261	
Total BTEX	<0.300	0.300	03/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	206	103	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	202	101	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					
Surrogate: 1-Chlorooctane	77.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.4	% 49.1-14	8						

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Celeg D. Frene



Analytical Results For:

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

Received: 03/18/2024 Sampling Date: 03/14/2024

Reported: 03/22/2024 Sampling Type: Soil

Project Name: PLU 21 BRUSHY DRAW CTB Sampling Condition: Cool & Intact
Project Number: 03C1558332 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO

Sample ID: SS 08 0.5' (H241379-03)

RTFY 8021R

Value QC RPD Qualifier 0.00 0.305 0.00 0.151 0.00 0.323 0.00 0.261
.00 0.151 .00 0.323
.00 0.323
00 0.261
alue QC RPD Qualifier
0.00
alue QC RPD Qualifier
00 2.69
00 0.758
00

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Celey D. Keene



Analytical Results For:

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

Received: 03/18/2024 Sampling Date: 03/14/2024

Reported: 03/22/2024 Sampling Type: Soil
Project Name: PLU 21 BRUSHY DRAW CTB Sampling Condition: Cool & Intact

Project Number: 03C1558332 Sample Received By: Tamara Oldaker

Project Location: XTO

Sample ID: SS 09 0.5' (H241379-04)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2024	ND	2.17	109	2.00	0.305	
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261	
Total BTEX	<0.300	0.300	03/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	206	103	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	202	101	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					
Surrogate: 1-Chlorooctane	80.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.1	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 03/18/2024 Sampling Date: 03/14/2024

Reported: 03/22/2024 Sampling Type: Soil

Project Name: PLU 21 BRUSHY DRAW CTB Sampling Condition: Cool & Intact
Project Number: 03C1558332 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

mg/kg

Sample ID: BH 01 1' (H241379-05)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2024	ND	2.17	109	2.00	0.305	
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261	
Total BTEX	<0.300	0.300	03/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	206	103	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	202	101	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 49.1-14	8						

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Celey D. Keine



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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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	(575) 393-2326 FAX (575) 393-2476	FAX (575) 393-2476		ANALYSIS	REQUEST
ompany Name:			BILL 10		
roject Manager: Ben Belill	Ben Belill		XTO Energy Inc.		
dress: 3122 N	Address: 3122 National Parks Hwy		Company: A Duth		
Carlsbad		State:NM Zip: 88220	E Green	St.	
e #:	337 257-8307	Fax #:	!		
roject #: 03C1558332	58332	Project Owner: XTO	City: Call 35000		
Project Name: PLU 21	U 21 Brushy Draw CTB	w CTB	3		
Project Location:			Phone #:		
ampler Name: C	Sampler Name: Connor Whitman	MATRIX	PRESERV. SAMPLING		
FOR LAB USE ONLY		R		ride	
Lab I.D.	Sample I.D.	(feet) (G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	TPH BTEX Chlor	
5	5507	2.0		(42)	
m!	8055	5.0		530	
4	5509	-		1305	
u,	BHOI	L			
			1		
PLEASE NOTE: Liability ar	nd Damages. Cardinal's liability and those for negligence and any of	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the present and any other cause whatsoewer shall be deemed waited unless made in writing and received by Cardinal within 30 days, after completion of the applicable presents and any other cause whatsoewer shall be deemed waited unless made in writing and received by Cardinal within 30 days, after completion of the applicable presents and any other cause whatsoewer shall be deemed waited unless made in writing and received by Cardinal within 30 days, after completion of the applicable.	tract or fort, shall be limited to the amount paid by gand received by Cardinal within 30 days after corons, loss of use, or loss of profits incurred by client		
service. In no event shall Card affiliates or successors arising Relinquished By:	ardinal be liable for incidental or or ing out of or related to the performary:	nace of services the recentral by Cardenal, regardless of whether such a nace of services the recentral by Cardenal, regardless of whether such a nace of services the recentral by: Date: Date:	to Malabara	olum.com Pes	ddress: @Ensolver.com
Refinquished By: Delivered By: (Circle One)	y: ' Circle One) Bus - Other:	Time: Observed Temp. °C Cool Intact Corrected Temp. °C No No	Condition CHECKED BY: Thract (Initials)	Cost Center: Turnaround Time: Rush Coo Thermometer ID #113	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No No Corrected Temp. °C
		† Cardinal cannot accept verbal	changes. Please email chang	Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com	



March 22, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 21 BRUSHY DRAW CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/18/24 12:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 03/18/2024 Sampling Date: 03/15/2024

Reported: 03/22/2024 Sampling Type: Soil

Project Name: PLU 21 BRUSHY DRAW CTB Sampling Condition: Cool & Intact
Project Number: 03C1558332 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

mg/kg

Sample ID: FS 01 1' (H241381-01)

BTEX 8021B

BIEX GOEED	9/	119	Anaryzo	u 5 y : 5 : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2024	ND	2.17	109	2.00	0.305	
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261	
Total BTEX	<0.300	0.300	03/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/19/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	207	104	200	19.2	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	207	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 03/18/2024 Sampling Date: 03/15/2024

Reported: 03/22/2024 Sampling Type: Soil

Project Name: PLU 21 BRUSHY DRAW CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558332 Tamara Oldaker

Project Location: XTO

Sample ID: FS 02 1' (H241381-02)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2024	ND	2.17	109	2.00	0.305	
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261	
Total BTEX	<0.300	0.300	03/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/19/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	207	104	200	19.2	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	207	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					
Surrogate: 1-Chlorooctane	91.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 03/18/2024 Sampling Date: 03/15/2024

Reported: 03/22/2024 Sampling Type: Soil

Project Name: PLU 21 BRUSHY DRAW CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558332 Tamara Oldaker

Project Location: XTO

Sample ID: BH 02 0.5' (H241381-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2024	ND	2.17	109	2.00	0.305	
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261	
Total BTEX	<0.300	0.300	03/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	03/19/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	207	104	200	19.2	
DRO >C10-C28*	67.8	10.0	03/19/2024	ND	207	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 03/18/2024 Sampling Date: 03/15/2024

Reported: 03/22/2024 Sampling Type: Soil

Project Name: PLU 21 BRUSHY DRAW CTB Sampling Condition: Cool & Intact
Project Number: 03C1558332 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO

mg/kg

Sample ID: BH 02A 4' (H241381-04)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2024	ND	2.17	109	2.00	0.305	
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261	
Total BTEX	<0.300	0.300	03/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/19/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	207	104	200	19.2	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	207	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					
Surrogate: 1-Chlorooctane	98.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 03/18/2024 Sampling Date: 03/15/2024

Reported: 03/22/2024 Sampling Type: Soil

Project Name: PLU 21 BRUSHY DRAW CTB Sampling Condition: Cool & Intact 03C1558332 Sample Received By: Project Number: Tamara Oldaker

Project Location: XTO

Sample ID: SW 01 0-1' (H241381-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2024	ND	2.17	109	2.00	0.305	
Toluene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	0.151	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.07	103	2.00	0.323	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.01	100	6.00	0.261	
Total BTEX	<0.300	0.300	03/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/19/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	207	104	200	19.2	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	207	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					
Surrogate: 1-Chlorooctane	96.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 03/18/2024 Sampling Date: 03/15/2024

Reported: 03/22/2024 Sampling Type: Soil

Project Name: PLU 21 BRUSHY DRAW CTB Sampling Condition: Cool & Intact 03C1558332 Sample Received By: Project Number: Tamara Oldaker

Project Location: XTO

Sample ID: SW 02 0-1' (H241381-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2024	ND	2.12	106	2.00	2.54	
Toluene*	<0.050	0.050	03/19/2024	ND	2.15	107	2.00	7.48	
Ethylbenzene*	<0.050	0.050	03/19/2024	ND	2.19	109	2.00	11.2	
Total Xylenes*	<0.150	0.150	03/19/2024	ND	6.50	108	6.00	11.8	
Total BTEX	<0.300	0.300	03/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/19/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	207	104	200	19.2	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	207	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 03/18/2024 Sampling Date: 03/15/2024

Reported: 03/22/2024 Sampling Type: Soil

Project Name: PLU 21 BRUSHY DRAW CTB Sampling Condition: Cool & Intact
Project Number: 03C1558332 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO

Sample ID: SW 03 0-1' (H241381-07)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2024	ND	2.12	106	2.00	2.54	
Toluene*	<0.050	0.050	03/19/2024	ND	2.15	107	2.00	7.48	
Ethylbenzene*	<0.050	0.050	03/19/2024	ND	2.19	109	2.00	11.2	
Total Xylenes*	<0.150	0.150	03/19/2024	ND	6.50	108	6.00	11.8	
Total BTEX	<0.300	0.300	03/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	03/19/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	207	104	200	19.2	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	207	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 03/18/2024 Sampling Date: 03/15/2024

Reported: 03/22/2024 Sampling Type: Soil

Project Name: PLU 21 BRUSHY DRAW CTB Sampling Condition: Cool & Intact 03C1558332 Sample Received By: Project Number: Tamara Oldaker

Project Location: XTO

Sample ID: SW 04 0-1' (H241381-08)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2024	ND	2.12	106	2.00	2.54	
Toluene*	<0.050	0.050	03/20/2024	ND	2.15	107	2.00	7.48	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.19	109	2.00	11.2	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.50	108	6.00	11.8	
Total BTEX	<0.300	0.300	03/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	03/19/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	207	104	200	19.2	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	207	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					
Surrogate: 1-Chlorooctane	83.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries of 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.

Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



		EAY (575) 393-2476		ANALYSIS REQUEST
			BILL TO	
Ollipally marries	Ensolum, LLC		P.O. #:	
roject Manager: Ben Belli	stional Darks Hwy		Company: XTO Energy Inc.	0
ddress: 3122 Naughar Sing	and in	State: NM Zip: 88220		-
1 5	337 257-8307	Fax #:	E. Gleen	C.F.
none #:	2222	Project Owner: XTO	city: Carlsbad	
roject #: USC 1SSSSSS	0 0	"CTR	State: NM Zip: 88220	
Project Name: PLU	U 21 Brushy Draw C 15	W C I B	*	
Project Location:			The state of the s	
mpler Name: C	Sampler Name: Connor Whitman	E E E MATRI	Y PRESERV SAMPLING	
FOR LAB USE ONLY		P. MAINIA		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMF	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TPH-BTEX-Chlor
100110	FSOI	1 61	5/15/24 10	010
8	FS02	7		025
(VI)	BH02	8		045
4	BH02A	100		201
5	svol	0-1		0110
6	Svor			
7	Soms			1120
8	HOMS	C &		
N GASE NOTE: I lability an	d Damages. Cardinal's liability and	The section to the state and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the applicable and the specific and the spec	ocontract or fort, shall be limited to the amount paid by viribing and received by Cardinal within 30 days after con	unt paid by the client for the aye after completion of the applicable
nalyses, All claims including ervice. In no event shall Co	analyses. All daims including those for negligience and any service. In no event shall Cardinal be liable for incidental or conviserice. In no event shall Cardinal be liable for incidental or conviserice.	neequental damages, including without limitation, business interruptions, loss or use, or new or he above stated reasons or otherwise, Ince of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	ruptions, loss or user, or lose - p. Ich claim is based upon any of the above stated reason V	was or otherwise. ☐ Yes ☐ No Add'I Phone #:
Relinquished By:	y:	Time:	A	@ Fe
Relinquished By:	y:	Dete 18/24 Received W:	Suddelle WK.	REMARKS: nAPP2405336143 Cost Center:
		6	Sample Condition CHECKED BY:	Turnaround Time: Standard Bacteria (only) Sample Conduction Cool Intact Observed Temp. °C Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Ot	Bus - Other:	Corrected Temp. °C	Pres Pres	870:3/18/24 11 NO
PORM-00	0 K 3.Z 10/07/Z1	† Cardinal cannot accept ver	Cardinal cannot accept verbal changes. Please email changes to celey. Keene	ges to celey.keene@carumanasammoo

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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 342026

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	342026
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2405336143
Incident Name	NAPP2405336143 PLU 21 BRUSHY DRAW CTB @ 0
Incident Type	Release Other
Incident Status	Remediation Closure Report Received

Location of Release Source						
Please answer all the questions in this group.						
Site Name	PLU 21 Brushy Draw CTB					
Date Release Discovered	02/08/2024					
Surface Owner	Private					

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications t	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Corrosion Pipeline (Any) Crude Oil Released: 3 BBL Recovered: 1 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Pipeline (Any) Produced Water Released: 5 BBL Recovered: 3 BBL Lost: 2 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)	Release of produced water containing some crude oil.

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QUESTIONS, Page 2

Action 342026

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	IONS (continued)
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	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.
	ilation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of svaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface it does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Amy Ruth Title: Coordinator SSHE Environmental

Email: amy.ruth@exxonmobil.com

Date: 02/22/2024

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

QUESTIONS, Page 3

Action 342026

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	342026
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	U.S. Geological Survey	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 300 and 500 (ft.)	
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 1000 (ft.) and ½ (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)	
Any other fresh water well or spring	Between 1000 (ft.) and ½ (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	No	

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provide	ded to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contam	ination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each,	in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	4960
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	67.8
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes com which includes the anticipated timelines for beginning and completing the remediation.	mpleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	03/05/2024
On what date will (or did) the final sampling or liner inspection occur	03/18/2024
On what date will (or was) the remediation complete(d)	05/08/2024
What is the estimated surface area (in square feet) that will be reclaimed	464
What is the estimated volume (in cubic yards) that will be reclaimed	68
What is the estimated surface area (in square feet) that will be remediated	170
What is the estimated volume (in cubic yards) that will be remediated	10
These estimated dates and measurements are recognized to be the best guess or calculation	n at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally adjuste	led in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV**1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 4

Action 342026

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	342026
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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

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

I hereby agree and sign off to the above statement

Name: Alan Romero Title: Regulatory Analyst

Email: alan.romero1@exxonmobil.com

Date: 05/08/2024

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

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QUESTIONS, Page 5

Action 342026

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	342026
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

OUESTIONS

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 342026

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	342026
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	320911
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/15/2024
What was the (estimated) number of samples that were to be gathered	14
What was the sampling surface area in square feet	2800

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	170	
What was the total volume (cubic yards) remediated	10	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	634	
What was the total volume (in cubic yards) reclaimed	93	
Summarize any additional remediation activities not included by answers (above)	Site assessment and excavation activities were conducted at the Site to address the February 2024, release of crude oil and produced water. Excavation activities were conducted to remove waste containing soil to the maximum extent practicable (MEP) without compromising the stability of active production equipment and pipelines, and worker safety. Laboratory analytical results for excavation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with the Closure Criteria. All accessible waste-containing soil exceeding the reclamation requirement has been removed. An estimated 68 cubic yards of waste-containing soil remains on pad, immediately adjacent to or beneath active production equipment and pipelines in the vicinity of borehole BH02. The remaining soil is delineated to the reclamation requirement by BH02A, and SS04, SS06 through SS09, and will be reclaimed during pad abandonment or any major facility reconstruction. The area where soil concentrations exceed the reclamation requirement is presented on Figure 3. Based on laboratory analytical results, no further remediation is required at this time. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing Site conditions. Areas pending reclamation will be completed during pad abandonment or major facility reconstruction.	

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

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

I hereby agree and sign off to the above statement

Name: Alan Romero

Title: Regulatory Analyst

Email: alan.romero1@exxonmobil.com

Date: 05/08/2024

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QUESTIONS, Page 7

Action 342026

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	342026
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 342026

CONDITIONS

Operator:	OGRID:
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Midland, TX 79707	342026
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Remediation has met 19.15.29 NMAC requirements. The variance request for the dtgw determination is approved. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling operations.	5/30/2024
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	5/30/2024