December 6, 2024

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

Re: Closure Request PLU Phantom Banks 20-25-31 Incident Number nAPP2418355674 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 assessment, excavation, and soil sampling activities at the PLU Phantom Banks 20-25-31 (Site). Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing assessment, excavation, and delineation activities that have occurred and requesting no further action for Incident Number nAPP2418355674.

## SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 20, Township 25 South, Range 31 East, in Eddy County, New Mexico (32.1224553°, -103.8060702°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On June 10, 2024, corrosion of a flowline resulted in the release of approximately 4 barrels (bbls) of crude oil and 12 bbls of produced water. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 1 bbls of crude oil and 4 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) and an Initial C-141 Application (C-141) on July 1, 2024. The release was assigned Incident Number nAPP2418355674.

## SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest groundwater well is United States Geological Survey (USGS) well 320643103465002, located approximately 1.5 miles southeast of the Site. The recorded depth to groundwater is 318 feet bgs with a total depth of 400 feet, measured on February 17, 1959. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

XTO Energy, Inc Closure Request PLU Phantom Banks 20-25-31

## **E N S O L U M**

The closest continuously flowing or significant watercourse to the Site is a playa lake approximately 3,698 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area).

Based on the results of the Site Characterization, and NMOCD's preference for depth to groundwater data to be less than ½ mile and 25 years, 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): 100 mg/kg
- Chloride: 600 mg/kg

## SITE ASSESSMENT ACTIVITIES

On June 14, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Eleven delineation soil samples (SS01 through SS11) were collected within and around the release extent from a depth of 0.5 feet bgs to assess the lateral exent of the release. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach<sup>®</sup> chloride QuanTab<sup>®</sup> 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 was completed during the site visit and a photographic log is included in Appendix B.

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

Laboratory analytical results for delineation soil samples SS01 through SS04, collected within the release extent indicated that BTEX, TPH, and/or chloride concentrations exceeded the Closure Criteria. Laboratory analytical results for delineation soil samples SS05 through SS11, collected around the release extent, indicated that all COC concentrations were compliant with the Closure Criteria, and confirmed the lateral extent of the release. Based on the laboratory analytical results, additional remediation activities were warranted.

## DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

From July 11, 2024 to September 17, 2024, Ensolum personnel were at the Site to oversee delineation and excavation activities. Delineation potholes PH01 through PH07 were advanced via trackhoe to terminal depths ranging from 4 feet bgs to 5 feet bgs within the release extent, to assess the vertical extent of the release. Delineation soil samples were collected from each pothole at depths ranging from 0.5 feet to 5 feet bgs. Soil from the delineation potholes was field screened for VOCs and chloride. Field

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screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2.

Impacted soil was excavated from the release area as indicated by visible staining, field screening activities, and laboratory analytical results for the delineation soil samples. Excavation activities were performed using a trackhoe and transport vehicle. The excavation occurred on the well pad near the production equipment. To direct excavation activities, Ensolum personnel screened soil for VOCs and chloride. Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS30 were collected from the floor of the excavation at depths of 1 foot to 6 feet bgs. Confirmation sidewall soil samples SW01 and SW14 were collected from the sidewalls of the excavation at depths ranging from ground surface to 4 feet bgs. Due to gradual sloping of the excavation floor, some floor samples were collected at deeper depths, 5 feet to 6 feet bgs, within the excavation than the external sidewalls. These samples were depths labeled with the deepest aliquot depth collected within the 200 square foot sampling area. The confirmation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and confirmation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 5,572 square feet. A total of approximately 930 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Halfway Landfill Service in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was backfilled with material purchased locally and the Site was recontoured to match pre-existing site conditions.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples PH01 and PH02, collected at 2 feet bgs, indicated that chloride concentrations exceeded Closure Criteria. Laboratory analytical results for all other delineation soil samples indicated that all COC concentrations were compliant with the Closure Criteria. In addition, laboratory analytical resuls from delineation pothole PH01 at 4 feet and PH02 at 5 feet bgs indicate COC concentrations are compliant with the Closure Criteria confirming the vertical extent of the release.

Laboratory analytical results for the confirmation floor soil samples FS01 through FS30 and sidewall soil samples SW01 through SW14 indicated that all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

## **CLOSURE REQUEST**

Site assessment and excavation activities were conducted at the Site to address the June 10, 2024, release of crude oil and produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required. XTO has backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the Site. XTO

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## E N S O L U M

believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2418355674.

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

Sincerely, Ensolum, LLC

Trace Hithard

Tracy Hillard Project Manager

Mouissey

Tacoma Morrissey Associate Principal

cc: Colton Brown, XTO Kaylan Dirkx, XTO Bureau of Land Management

Appendices:

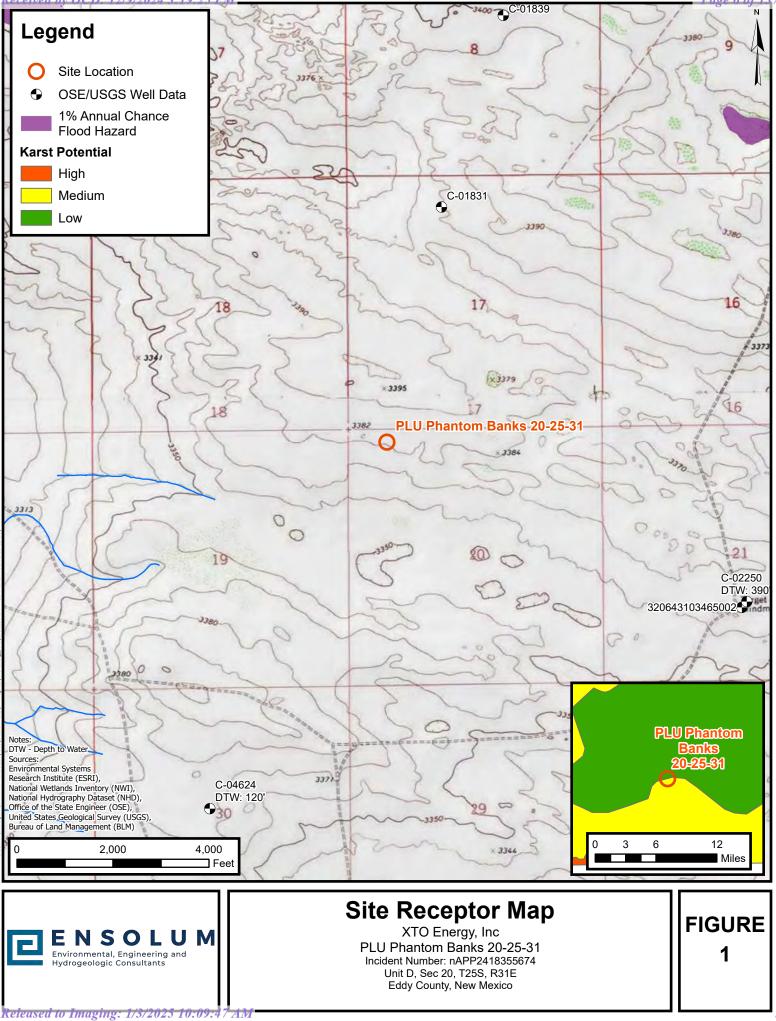
- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Confirmation Soil Sample Locations
- Table 1Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Photographic Log
- Appendix C Lithologic / Soil Sampling Logs
- Appendix D Laboratory Analytical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



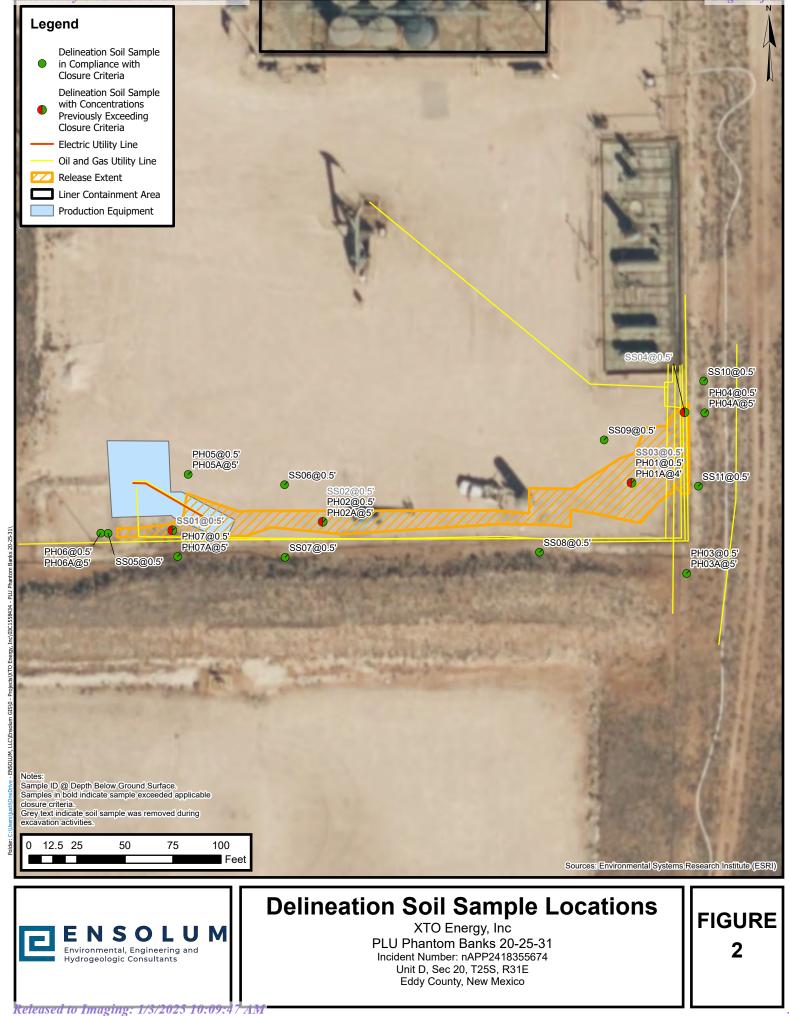
**FIGURES** 

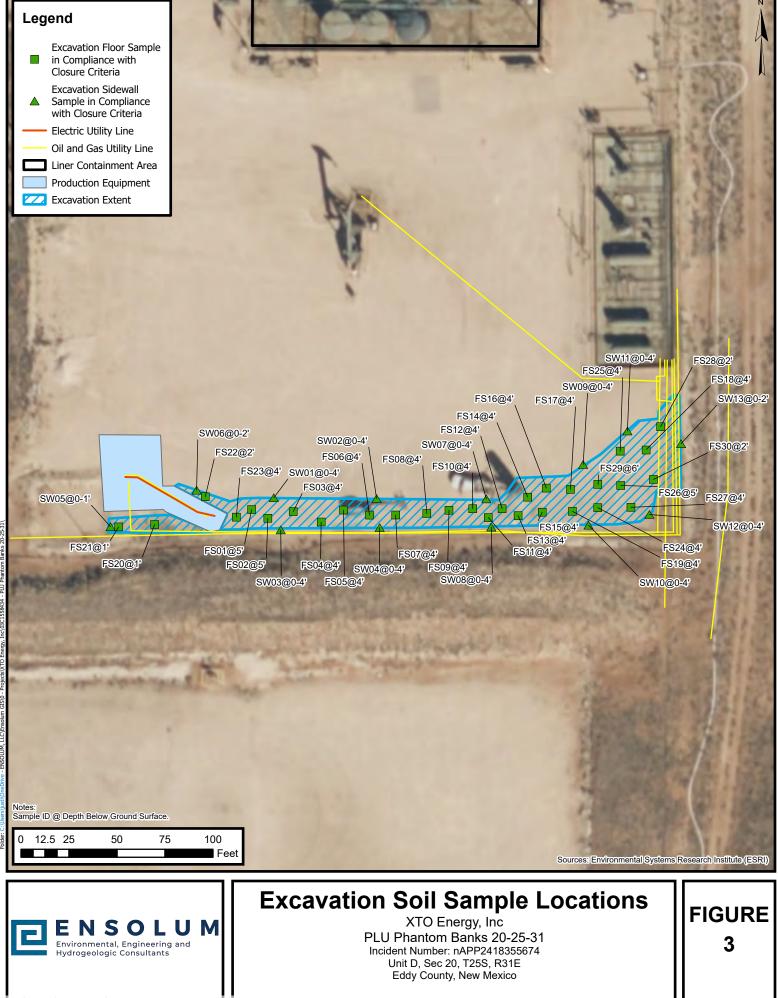
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## TABLES

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				PLU Ph	TABLE 1 LE ANALYTIC antom Banks (TO Energy, Ir County, New	20-25-31 າດ				
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Delir	neation Soil Sa	nples				
<del>SS01</del>	06/14/2024	0.5	<del>&lt;0.050</del>	<del>8.5</del>	453	<del>11,700</del>	<del>1,910</del>	<del>12,153</del>	<del>14,063</del>	<del>9,330</del>
<del>\$\$02</del>	06/14/2024	0.5	<0.050	0.305	10.0	855	163	865	1,028	<del>12,000</del>
PH02	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,000
PH02A	07/11/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
<del>\$\$03</del>	06/14/2024	0.5	<0.100	29.5	390	<del>10,400</del>	<del>1,960</del>	<del>10,790</del>	<del>12,750</del>	<del>12,000</del>
PH01	07/11/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<del>3,480</del>
PH01A	07/11/2024	4	<0.050	<0.300	<10.0	18.9	<10.0	18.9	18.9	272
<del>SS04</del>	06/14/2024	0.5	4.70	177	3,560	<del>28,200</del>	<del>5,560</del>	31,760	<del>37,320</del>	7,860
SS05	06/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS06	06/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS07	06/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS08	06/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS09	06/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS10	06/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS11	06/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH03	07/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH03A	07/25/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH04	07/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
PH04A	07/25/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
PH05	07/25/2024	0.5	<0.050	<0.300	<10.0	12.8	<10.0	12.8	12.8	112
PH05A	07/25/2024	5	<0.050	<0.300	<10.0	17.2	<10.0	17.2	17.2	96.0
PH06	07/25/2024	0.5	<0.050	<0.300	<10.0	23.4	<10.0	23.4	23.4	112
PH06A	07/25/2024	5	<0.050	<0.300	<10.0	15.7	<10.0	15.7	15.7	112
PH07	07/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH07A	07/25/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
				Confi	rmation Soil Sa	mples				
FS01	07/25/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS02	07/25/2024	5	<0.050	<0.300	<10.0	14.1	<10.0	14.1	14.1	144
FS03	07/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS04	07/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS05	07/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272

				PLU Ph	TABLE 1 LE ANALYTIC antom Banks (TO Energy, Ir County, New	20-25-31 nc				
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 (I	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
FS06	07/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS07	07/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS08	07/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS09	07/25/2024	4	<0.050	<0.300	<10.0	10.6	<10.0	10.6	10.6	128
FS10	07/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS11	07/25/2024	4	<0.050	<0.300	<10.0	12.1	<10.0	12.1	12.1	112
FS12	07/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS13	07/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS14	07/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS15	07/25/2024	4	<0.050	<0.300	<10.0	41.1	12.8	41.1	53.9	96.0
FS16	07/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS17	09/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
FS18	09/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS19	09/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS20	09/05/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS21	09/05/2024	1	<0.050	<0.300	<10.0	50.1	13.7	50.1	63.8	272
FS22	09/05/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS23	09/11/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS24	09/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
FS25	09/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS26	09/17/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS27	09/17/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS28	09/17/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS29	09/11/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS30	09/17/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
SW01	07/25/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW02	07/25/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW03	07/25/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SW04	07/25/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW05	09/05/2024	0 - 1	<0.050	<0.300	<10.0	61.7	15.5	61.7	77.2	288
SW06	09/05/2024	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW07	09/11/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256

				PLU Ph	TABLE 1 LE ANALYTIC antom Banks (TO Energy, Ir County, New	20-25-31 nc				
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 (I	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
SW08	09/11/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW09	09/11/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SW10	09/11/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW11	09/17/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW12	09/17/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW13	09/17/2024	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SW14	09/17/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

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



## APPENDIX A

**Referenced Well Records** 

Received by OCD: 12/9/2024 3:19:25 PM

USGS Home Contact USGS Search USGS



**National Water Information System: Web Interface** 

USGS Water Resources

 Data Category:
 Geographic Area:

 Groundwater

 Go

 Go

Click to hideNews Bulletins

- Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Important: <u>Next Generation Monitoring Location Page</u>

## Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 320643103465002

**Minimum number of levels =** 1 <u>Save file of selected sites</u> to local disk for future upload

## USGS 320643103465002 25S.31E.21.413314A

Eddy County, New Mexico Latitude 32°06'46.0", Longitude 103°46'56.3" NAD83 Land-surface elevation 3,374.00 feet above NGVD29 The depth of the well is 400 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 ionnats
Table of data
Tab-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	? Measuring agency	? Source measur
1959-02-17		D	62610		3055.98	NGVD29	Р	Z		
1959-02-17		D	62611		3057.66	NAVD88	Р	Z		
1959-02-17		D	72019	318.02			Р	Z		
2013-01-17	19:40 UTC	m	62610			NGVD29	D	S	USGS	
2013-01-17	19:40 UTC	m	62611			NAVD88	D	S	USGS	
2013-01-17	19:40 UTC	m	72019				D	S	USGS	

		Explanation
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet

## **Released to Imaging: 1/3/2025 10:09:47 AM**

## Received by OCD: 12/9/2024 3:19:25 PM

Section	Code	Description
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	D	Dry
Status	Р	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

#### Questions or Comments Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

 Accessibility
 FOIA
 Privacy
 Policies and Notices

 U.S. Department of the Interior
 U.S. Geological Survey

Title: Groundwater for New Mexico: Water Levels URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

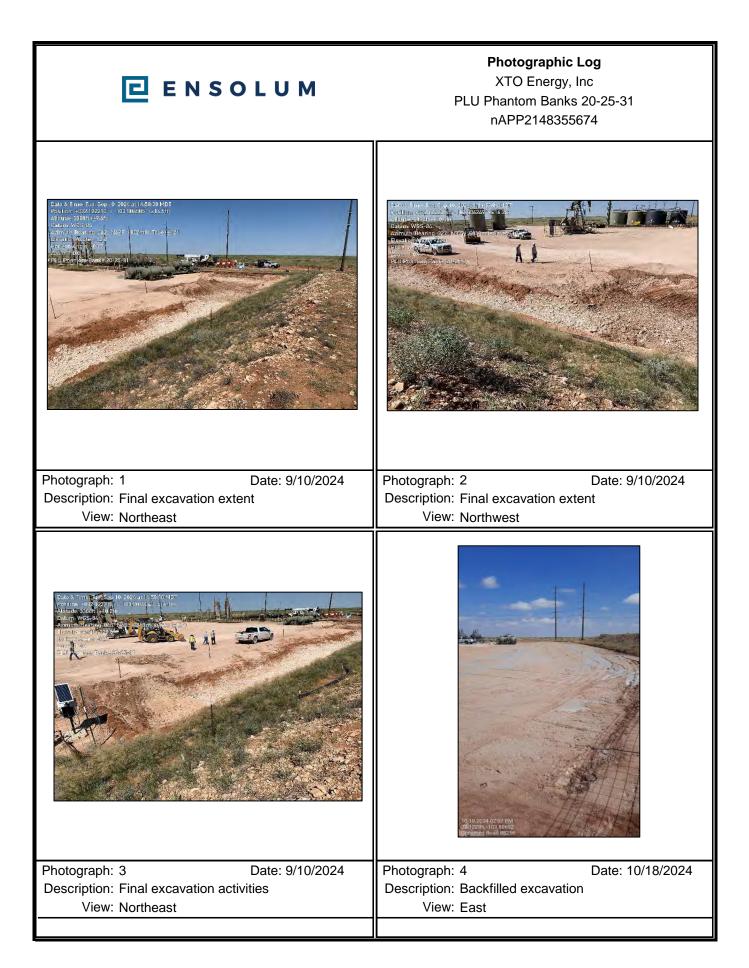
Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2024-06-11 17:09:23 EDT 0.25 0.22 nadww01 USA.gov



## APPENDIX B

Photographic Log







APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: PH01	Date: 7-11-24
			N			LU	RЛ	Site Name: PLU Phantom Banks	s 20-25-31
								Incident Number: NAPP241835	5674
								Job Number: 03C1558434	
		LITHOL	OGI	C / SOIL S	SAMPLING	G LOG		Logged By: Connor Whitman	Method: Backhoe
			-	3.806139				Hole Diameter: 2'	Total Depth: 4' bgs
			-					PID for chloride and vapor, responder factor included.	pectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	Descriptions
М	17,320	256	Y	SS03	0.5 _	0 	CCHE	CALICHE, tan sandy, with H/C Stain and odor.	silt, moist.
Μ	6,714	16.1	Ν		1	1	SP	SAND, red-brown, very fir moist. No stain, faint HC o	ne, with little silt, odor.
М	11,575	5.4	N	PH01	2	2			
D	7,268	1.5	Ν		3	- 3 -	CCHE	CALICHE, tan, indurated, s some very fine brown sar No stain, faint HC odor.	strong cohesion, nd.
D	358	0.0	Ν	PH01A	4	_ 4			
	I					Total de	oth @ 4	feet bgs.	

-					_			Sample Name: PH02	Date: 7-11-24
C		F	N	S		LU	Μ	Site Name: PLU Phantom Ban	
								Incident Number: NAPP24183	355674
								Job Number: 03C1558434	
				-	SAMPLING	G LOG		Logged By: Connor Whitman	Method: Backhoe
				3.806658	the lange of c	le state Track		Hole Diameter: 2' PID for chloride and vapor, re	Total Depth: 5' bgs
			-				•	on factor included.	spectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic	Descriptions
М	15,926	46.0	Y	SS02	0.5	0 	CCHE	CALICHE, tan sandy, witl H/C Stain and odor.	h silt, moist.
Μ	7,862	0.0	N		1	1	SP	SAND, red-brown, very f moist. No stain, faint HC	fine, with little silt, Codor.
М	9,178	0.0	N	PH02	2	2			
D	2,744	0.0	Ν		3	3		CALICHE, tan, indurated some very fine brown sa No stain, faint HC odor.	, strong cohesion, and.
D	1,825	0.0	N		4	4			
D	168	0.0	N	PH02A	5	5			
$\overline{\ }$						Total De	pth @ 5	feet bgs.	
	$\overline{}$								
		$\overline{}$							
					$\sim$				
						$\overline{}$			

								Sample Name: PH03	Date: 7-25-24
	-	F	N			LU	M	Site Name: PLU Phantom Banks 2	
								Incident Number: NAPP24183556	574
								Job Number: 03C1558434	
		LITHOL	OGI	C / SOIL S	SAMPLING	G LOG		Logged By: Connor Whitman	Method: Backhoe
				3.806048				Hole Diameter: 2'	Total Depth: 5' bgs
			-				correctio	PID for chloride and vapor, respect In factor included.	ctively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions
М	<168	0.0	N	PH03	0.5	0	SP	SAND, red-brown, very fine No Stain or HC odor.	with silt.
Μ	<168	0.0	N		1	1			
Μ	<168	0.0	Ν		2	2			
D	<168	0.0	Ν		3	3	CCHE	CALICHE, tan, indurated, sti No Stain or HC odor.	rong cohesion.
D	<168	0.0	N		4	4			
D	<168	0.0	N	PH03A	5	5			
								feet bgs.	

							Sample Name: PH04	Date: 7-25-24
		N			LU	R A		20-25-31
							Incident Number: NAPP2418355	674
							Job Number: 03C1558434	
	LITHOL	OGI	C / SOIL S	SAMPLING	G LOG		Logged By: Connor Whitman	Method: Backhoe
Coordinates: 3	2.122446	, -103	3.806014				Hole Diameter: 2'	Total Depth: 5' bgs
		-					PID for chloride and vapor, respond factor included.	ectively. Chloride test
ivioisture <u>Content</u> Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	escriptions
M <168	0.0	N	PH04	0.5		SP	SAND, red-brown, very fin No Stain or HC odor.	e with silt.
M <168	0.0	N		1 _	_ 1 - -			
M <168	0.0	N		2	2			
D <168	0.0	N		3	3	CCHE	CALICHE, tan, indurated, s No Stain or HC odor.	trong conesion.
D <168	0.0	N		4	_ 4 - -			
D <168	0.0	Ν	PH04A	5 _	_ 5			
							feet bgs.	

Ste Name: PLU Phantom Banks 20-25-31         Incident Number: NAPP241835574         Iob Number: 03C1558434         LITHOLOGIC / SOIL SAMPLING LOG       Logged By: Connor Whitman         Coordinates: 32.122367, -103.806886       Hole Diameter: 2'       Total Depth: 5' bgs         Connormation       Method: Backhoe       Hole Diameter: 2'       Total Depth: 5' bgs         Connormation       Method: Backhoe       Hole Diameter: 2'       Total Depth: 5' bgs         Connormation       Method: Backhoe       Hole Diameter: 2'       Total Depth: 5' bgs         Connormation       Method: Backhoe       Hole Diameter: 2'       Total Depth: 5' bgs         Connormation       Method: Backhoe       Method: Backhoe       Hole Diameter: 2'       Total Depth: 5' bgs         Connormation       Method: Backhoe       Method: Backhoe       Method: Backhoe       Method: Backhoe         Performed with 1-4 diution factor of soil to distilled water. 40% correction factor included.       Method: Backhoe       Method: Backhoe         D       Class 0.0       N       Photo       D.5       Method: Stain or HC odor.       Method: Backhoe         D       Class 0.0       N       2       2       CCHE       CALICHE : tan, indurated, strong cohesion.         D       Class 0.0       N       3									Sample Name: PH05	Date: 7-26-24
Job Number: 03C1558434           LITHOLOGIC / SOIL SAMPLING LOG         Logged By: Connor Whitman         Method: Backhoe           Coordinates: 32.122367, -103.806886         Hole Diameter: 2'         Total Depth: 5' bgs           Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.         Lithologic Descriptions           Total Depth: 5' bgs           O           O           O           Click Soil Sample           Depth (ft bgs)         O           O           D         Click Soil Sample         Depth (ft bgs)         O           D         Click Soil Sample         Depth (ft bgs)         Sample Depth (ft bgs)         CCHE         CALICHE , tan, sandy. No Stain or HC odor.           D         CHE         CHICHE , tan, indurated, strong cohesion. No Stain or HC odor.           D         CHE         CHICHE , tan, indurated, strong cohesion. No Stain or HC odor.           D		-	F	N	S			M	Site Name: PLU Phantom Banks	20-25-31
LITHOLOGIC / SOIL SAMPLING LOG       Logged By: Connor Whitman       Method: Backhoe         Coordinates: 32.122367, -103.806886       Hole Diameter: 2'       Total Depth: 5' bgs         Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test       Performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.         and tag by ta									Incident Number: NAPP241835	5674
Coordinates: 32.122367, -103.806886       Total Depth: 5' bgs         Hole Diameter: 2'       Total Depth: 5' bgs         Coordinates: 32.122367, -103.806886       Hole Diameter: 2'       Total Depth: 5' bgs         Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.         and the performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.         Option of the performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.         Option of the performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.         Option of the performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.         Depth (ft bgs)       Option of the performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.         Depth (ft bgs)       Depth (ft bgs)       Correction factor included.         Uption of the performed with 50 to the performed wit									Job Number: 03C1558434	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.         and tig by			LITHOL	OGI	C / SOIL S	SAMPLING	g log		Logged By: Connor Whitman	
performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.         and signed by the second s										
D       <168       0.0       N       PH05       0.5       II       0       CCHE       CALICHE , tan, sandy. No Stain or HC odor.         M       <168				-						ectively. Chloride test
D       <168       0.0       N       PH05       0.5       CCHE       CALICHE, tan, sandy. No Stain or HC odor.         M       <168	Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Depth	(ft bgs)	USCS/Rock Symbol	Lithologic D	escriptions
D       <168       0.0       N       2       2       2       CCHE       CALICHE, tan, indurated, strong cohesion.         D       <168	D	<168	0.0	N	PH05	0.5	0	CCHE		
D       <168	Μ	<168	0.0	Ν		1	1	SP	SAND, red-brown, very fir No Stain or HC odor.	ne with silt.
D <168 0.0 N H05A 5 5	D	<168	0.0	N		2	2	CCHE	CALICHE, tan, indurated, s No Stain or HC odor.	strong cohesion.
D <168 0.0 N PH05A 5 5	D	<168	0.0	N		3	3			
	D	<168	0.0	N		4	- 4			
Total Depth @ 5 feet bgs.	D	<168	0.0	N	PH05A	5	5			
							Total De		leet bgs.	

								Sample Name: PH06	Date: 7-26-24
		F	N				M	Site Name: PLU Phantom Banks	
<b>E</b> N S O L U M						Incident Number: NAPP2418355	674		
								Job Number: 03C1558434	
		LITHOL	OGI	C / SOIL S	SAMPLING	G LOG		Logged By: Connor Whitman	Method: Backhoe
				3.807032				Hole Diameter: 2'	Total Depth: 5' bgs
			-					PID for chloride and vapor, responsion factor included.	ectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions
D	<168	0.0	N	PH06	0.5	0	CCHE	CALICHE , tan, sandy. No Stain or HC odor.	
Μ	<168	0.0	Ν		1	1	SP	SAND, red-brown, very fin No Stain or HC odor.	e with silt.
D	<168	0.0	N		2	2	CCHE	CALICHE, tan, indurated, s No Stain or HC odor.	trong cohesion.
D	<168	0.0	N		3	3			
D	<168	0.0	N		4	4			
D	<168	0.0	N	PH06A	5	5			
						Total De	pth @ 5	feet bgs.	

J		_					Sample Name: PH07	Date: 7-26-24	
	F	N	S		LU	Μ	Site Name: PLU Phantom Banks 20-25-31		
							Incident Number: NAPP241835	5674	
							Job Number: 03C1558434		
			-	SAMPLING	G LOG		Logged By: Connor Whitman	Method: Backhoe	
oordinates:							Hole Diameter: 2'	Total Depth: 5' bgs	
		-					PID for chloride and vapor, res on factor included.	pectively. Chloride test	
Content Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
M <168 M <168		N N	PH07	0.5		SP	SAND, red-brown, very fi No Stain or HC odor.	ne with silt.	
M <168		N		2	2	ССНЕ	CALICHE, tan, indurated, No Stain or HC odor.	strong cohesion.	
D <168	0.0	N		3	3				
D <168	0.0	N		4	4				
D <168	0.0	Ν	PH07A	5 _	_ 5				
							feet bgs.		



## APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



June 24, 2024

DAVID MCINNIS ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: PLU PHANTOM BANKS 20-25-31 FLOWLINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 06/18/24 14:18.

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

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	06/18/2024	Sampling Date:	06/14/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

### Sample ID: SS01 0.5 (H243573-01)

BTEX 8021B	mg/kg		Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2024	ND	1.99	99.5	2.00	4.24	
Toluene*	0.482	0.050	06/22/2024	ND	2.08	104	2.00	4.23	
Ethylbenzene*	0.697	0.050	06/22/2024	ND	2.13	106	2.00	3.88	
Total Xylenes*	7.32	0.150	06/22/2024	ND	6.36	106	6.00	3.83	
Total BTEX	8.50	0.300	06/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	183	% 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	Qualifie
Chloride	9330	16.0	06/20/2024	ND	448	112	400	7.41	QM-07
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	453	50.0	06/21/2024	ND	175	87.7	200	3.70	
DRO >C10-C28*	11700	50.0	06/21/2024	ND	175	87.4	200	1.15	
EXT DRO >C28-C36	1910	50.0	06/21/2024	ND					
Surrogate: 1-Chlorooctane	241	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	244	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	06/18/2024	Sampling Date:	06/14/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

### Sample ID: SS02 0.5 (H243573-02)

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	06/21/2024	ND	1.99	99.5	2.00	4.24	
Toluene*	0.051	0.050	06/21/2024	ND	2.08	104	2.00	4.23	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.13	106	2.00	3.88	
Total Xylenes*	0.253	0.150	06/21/2024	ND	6.36	106	6.00	3.83	
Total BTEX	0.305	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	133	% 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	12000	16.0	06/20/2024	ND	448	112	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	06/20/2024	ND	175	87.7	200	3.70	
DRO >C10-C28*	855	10.0	06/20/2024	ND	175	87.4	200	1.15	
EXT DRO >C28-C36	163	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	77.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.3	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	06/18/2024	Sampling Date:	06/14/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	XTO		

### Sample ID: SS03 0.5 (H243573-03)

BTEX 8021B	mg/kg		Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	06/22/2024	ND	1.99	99.5	2.00	4.24	
Toluene*	3.51	0.100	06/22/2024	ND	2.08	104	2.00	4.23	
Ethylbenzene*	2.40	0.100	06/22/2024	ND	2.13	106	2.00	3.88	
Total Xylenes*	23.6	0.300	06/22/2024	ND	6.36	106	6.00	3.83	
Total BTEX	29.5	0.600	06/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	145	% 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	12000	16.0	06/20/2024	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	390	50.0	06/21/2024	ND	175	87.7	200	3.70	
DRO >C10-C28*	10400	50.0	06/21/2024	ND	175	87.4	200	1.15	
EXT DRO >C28-C36	1960	50.0	06/21/2024	ND					
Surrogate: 1-Chlorooctane	117 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	253	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	06/18/2024	Sampling Date:	06/14/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	XTO		

### Sample ID: SS04 0.5 (H243573-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	4.70	1.00	06/21/2024	ND	1.99	99.5	2.00	4.24		
Toluene*	48.0	1.00	06/21/2024	ND	2.08	104	2.00	4.23		
Ethylbenzene*	14.0	1.00	06/21/2024	ND	2.13	106	2.00	3.88		
Total Xylenes*	111	3.00	06/21/2024	ND	6.36	106	6.00	3.83		
Total BTEX	177	6.00	06/21/2024	ND						
Surrogate: 4-Bromofluorobenzene (PID	112	% 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	7860	16.0	06/20/2024	ND	448	112	400	7.41		
TPH 8015M	mg	/kg	Analyzed By: MS						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	3560	50.0	06/21/2024	ND	175	87.7	200	3.70		
DRO >C10-C28*	28200	50.0	06/21/2024	ND	175	87.4	200	1.15		
EXT DRO >C28-C36	5560	50.0	06/21/2024	ND						
Surrogate: 1-Chlorooctane	497	% 48.2-13	4							
Surrogate: 1-Chlorooctadecane	646	% 49.1-14	8							

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	06/18/2024	Sampling Date:	06/14/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	XTO		

### Sample ID: SS05 0.5 (H243573-05)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.99	99.5	2.00	4.24	
Toluene*	<0.050	0.050	06/21/2024	ND	2.08	104	2.00	4.23	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.13	106	2.00	3.88	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.36	106	6.00	3.83	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	112	16.0	06/20/2024	ND	448	112	400	7.41	
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	06/20/2024	ND	175	87.7	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	175	87.4	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	76.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	06/18/2024	Sampling Date:	06/14/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	XTO		

### Sample ID: SS06 0.5 (H243573-06)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.99	99.5	2.00	4.24	
Toluene*	<0.050	0.050	06/21/2024	ND	2.08	104	2.00	4.23	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.13	106	2.00	3.88	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.36	106	6.00	3.83	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 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	144	16.0	06/20/2024	ND	448	112	400	7.41	
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	06/20/2024	ND	175	87.7	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	175	87.4	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	76.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.6	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	06/18/2024	Sampling Date:	06/14/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

### Sample ID: SS07 0.5 (H243573-07)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.99	99.5	2.00	4.24	
Toluene*	<0.050	0.050	06/21/2024	ND	2.08	104	2.00	4.23	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.13	106	2.00	3.88	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.36	106	6.00	3.83	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 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	06/20/2024	ND	448	112	400	7.41	
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	06/20/2024	ND	175	87.7	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	175	87.4	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	71.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	06/18/2024	Sampling Date:	06/14/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	XTO		

### Sample ID: SS08 0.5 (H243573-08)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	1.99	99.5	2.00	4.24	
Toluene*	<0.050	0.050	06/21/2024	ND	2.08	104	2.00	4.23	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.13	106	2.00	3.88	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.36	106	6.00	3.83	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 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	06/20/2024	ND	448	112	400	7.41	
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	06/21/2024	ND	175	87.7	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/21/2024	ND	175	87.4	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					
Surrogate: 1-Chlorooctane	73.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.1	% 49.1-14	8						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	06/18/2024	Sampling Date:	06/14/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

### Sample ID: SS09 0.5 (H243573-09)

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	06/21/2024	ND	1.99	99.5	2.00	4.24	
Toluene*	<0.050	0.050	06/21/2024	ND	2.08	104	2.00	4.23	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.13	106	2.00	3.88	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.36	106	6.00	3.83	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	96.0	16.0	06/20/2024	ND	448	112	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	06/20/2024	ND	179	89.5	200	5.14	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	173	86.6	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	76.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.4	% 49.1-14	8						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	06/18/2024	Sampling Date:	06/14/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

# Sample ID: SS10 0.5 (H243573-10)

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	06/21/2024	ND	1.99	99.5	2.00	4.24	
Toluene*	<0.050	0.050	06/21/2024	ND	2.08	104	2.00	4.23	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.13	106	2.00	3.88	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.36	106	6.00	3.83	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 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	80.0	16.0	06/20/2024	ND	448	112	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	06/20/2024	ND	179	89.5	200	5.14	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	173	86.6	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	77.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.7	% 49.1-14	8						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	06/18/2024	Sampling Date:	06/14/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

# Sample ID: SS11 0.5 (H243573-11)

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	06/21/2024	ND	1.99	99.5	2.00	4.24	
Toluene*	<0.050	0.050	06/21/2024	ND	2.08	104	2.00	4.23	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.13	106	2.00	3.88	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.36	106	6.00	3.83	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	48.0	16.0	06/20/2024	ND	448	112	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	06/20/2024	ND	179	89.5	200	5.14	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	173	86.6	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	78.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.8	% 49.1-14	8						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

#### **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 whatscever 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 whose 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 whose site to the services interruptors, loss of profits incurred by client, its subsidiaries, afflictes or successor arising out of or related to 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. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Mariand, Hobbs, NM 88240         (575) 393-2326 FAX (575) 393-2476         Company Name:       Ensolum, LLC         Project Manager: David Mcinnis dmcInnis@ensolum.com         Address: 3122 National Parks Hwy         City:       CarlSbad         Project #: 03C1558434       Project Owner: XT         Project #: 03C1558434       Project Owner: XT         Project Name:       PLAB I.D.         Varyzs73       SCo1         Sample I.D.       Sample I.D.         Varyzs73       SCo1         Soci       Sco2         Soci       Sco3         Soci	101 East Marland, Hobbs, NM 88240         (575) 393-2326 FAX (575) 393-2476         Ensolum, LLC         Samula Mcinnis dmcInnis@ensolum.com         National Parks Hwy         d       State: NM       Zip: 88220         257-8307       Fax #:         558434       Project Owner: XTO         LU Phantom Banks 20-25-31 Flowline Leak         ::       Sample Depth $G; G; Z; G; G;$	Image: Constant of the second seco	OTHER :     BILL :       P.O. #:     Company: XTO E       Address: 3104 E.     City: Carlsbad       State: NM Zip: 8     PRESERV.       OTHER :     OTHER :       OTHER :     OTHER :	LL TO IC Energy Inc. uth A E. Green St. ad DATE TIME G-IH-24 955 G-IH-24 955 G-IH-24 955 Icos Icos Icos Icos Icos Icos Icos Icos Icos Icos Icos	E BTEX	CHLORIDE	ANALYSIS REQUEST
Project Manager: David Mcinr Address: 3122 National Pai City: Carlsbad	nis dmcInnis@ensolun rks Hwy State:NM	1.com 7in: 88220	ny: XTO	Energy Inc.			
	Fax #:		Address: 3104 E	Green			
Project #: 03C1558434	Project Owne	: XTO					
Project Name: PLU Phantom	n Banks 20-25-31 FI	owline Leak	Zin	88220		_	
Project Location:					_		
Sampler Name: Connor Whitn	nan						
FOR LAB USE ONLY		MATDIX	Fax #.		_		
-		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	ACID/BASE: ICE / COOL				
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PLEASE NOTE: Liability and Damages. Cardina'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 analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal the liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	thility and client's exclusive remedy for any claim of any other cause whatsoever shall be deemed ttal or consequental damages, including without	y claim arising whether based in contract c eemed waived unless made in writing and without limitation, business interruptions, lo	contract or tort, shall be limited to the am- riting and received by Cardinal within 30 d uptions, loss of use, or loss of profits incur	ount paid by the client for th lays after completion of the red by client, its subsidiaries	applicable	× I	
Relinquished By:	Date 8-24	Received By:	s based upon any of the above stated	All Results are	it: U	Yes INO	sons or otherwise. Verbal Result:
CAPP	Time	aparro		bbelill@er	solum.con	1, TMorrissey@u	bbelill@ensolum.com, TMorrissey@ensolum.com, dmcInnis@ensolum.com
Relinquished By:	Date: Time:	Received By:		REMARKS: Cost Ce	MARKS: Cost Center: 1081581001	381001	Incident ID: PENDING
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	on CHECKED BY:	-	AP (1-18-1-4	Standard Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

# Page 41 of 137

# Received by OCD: 12/9/2024 3:19:25 PM

Op/Inc.     ANALYSIS REQUEST       20     Image: Construction of the second se
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# Page 42 of 137



July 22, 2024

DAVID MCINNIS ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: PLU PHANTOM BANKS 20-25-31 FLOWLINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 07/16/24 13:25.

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

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/16/2024	Sampling Date:	07/11/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

# Sample ID: PH 01 2' (H244231-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2024	ND	1.97	98.5	2.00	4.05	
Toluene*	<0.050	0.050	07/17/2024	ND	2.14	107	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.20	110	2.00	3.02	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.83	114	6.00	2.91	
Total BTEX	<0.300	0.300	07/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	07/16/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	206	103	200	5.27	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	179	89.4	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					
Surrogate: 1-Chlorooctane	97.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	0						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/16/2024	Sampling Date:	07/11/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

#### Sample ID: PH 01 A 4' (H244231-02)

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	07/17/2024	ND	1.97	98.5	2.00	4.05	
Toluene*	<0.050	0.050	07/17/2024	ND	2.14	107	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.20	110	2.00	3.02	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.83	114	6.00	2.91	
Total BTEX	<0.300	0.300	07/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/16/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	206	103	200	5.27	
DRO >C10-C28*	18.9	10.0	07/17/2024	ND	179	89.4	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/16/2024	Sampling Date:	07/11/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	XTO		

### Sample ID: PH 02 2' (H244231-03)

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	07/17/2024	ND	1.97	98.5	2.00	4.05	
Toluene*	<0.050	0.050	07/17/2024	ND	2.14	107	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.20	110	2.00	3.02	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.83	114	6.00	2.91	
Total BTEX	<0.300	0.300	07/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 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	6000	16.0	07/17/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	206	103	200	5.27	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	179	89.4	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	136	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/16/2024	Sampling Date:	07/11/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	XTO		

#### Sample ID: PH 02 A 5' (H244231-04)

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	07/17/2024	ND	1.97	98.5	2.00	4.05	
Toluene*	<0.050	0.050	07/17/2024	ND	2.14	107	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.20	110	2.00	3.02	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.83	114	6.00	2.91	
Total BTEX	<0.300	0.300	07/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 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	128	16.0	07/17/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	206	103	200	5.27	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	179	89.4	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					
Surrogate: 1-Chlorooctane	93.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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

#### **Cardinal Laboratories**

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever 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 whose 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 whose site to the services interruptors, loss of profits incurred by client, its subsidiaries, afflictes or successor arising out of or related to 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.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 12/9/2024 3:19:25 PM

And East	Marland Hobbs NM 88240		-tel
101 East (575) 39	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		ANALYSIS REOLIEST
Company Name: Ensol	Ensolum, LLC	P.O. #:	
Advance: 3122 National Parks Hwy	Parks Hwv	company: XTO Energy	/ Inc.
Address: Carlsbad	State:NM Zip: 88220	Attn: Amy Ruth	
Phone #: 337 257-8307	Fax #:	iu	Green St.
	34	city: Carlsbad	
000	ntom Ba	State: NM Zip: 88220	
		Phone #:	
Project Location.	Nhimon	Fax #:	
Sampler Name: Connor Whitinan	AVRIUNARI MATRIX	L	ING
Lab I.D. Sam	(feet) (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	Image: Stress st
1 PHO	Q (		0201
0	A		1235 / / /
y PHOZA	ZA S VV V	V	
PLEASE NOTE: Liability and Damages. Cardinal's liability a analyses. All claims including those for negligence and any	nd client's exclusive remedy for any claim other cause whatsoever shall be deemed	shall be limited to the amound by Cardinal within 30 da	unt paid by the client for the applicable and the completence of the applicable and the client its subsidiarizes.
Affiables or success a trial caronia our insure Relinquisheed By:	ad to the performance of services hereunder by Can Date: T-10-24 Time:	such claim is based upon any of the above stated re-	Verbal Result:  Yes No Add'I Phone #: All Results are emailed. Please provide Email address: bbelill@ensolum.com, TMorrissey@ensolum.com, dmcInnis@ensolum.com
Relinquished By:	Date: Received By:		Cost Center 1081581001 Incident ID: NAPP2418355674
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C	tract (Initials)	Turmaround Time: Standard Bacteria (only) Sample Condition APD '7' IU ZU Rush Cool Intact Observed Temp. °C Themometer ID #HA Corrector Factor 65°C #140 IVes Ves Corrected Temp. °C
FURM-006 K 3.2 10	ning in the second se		



August 02, 2024

DAVID MCINNIS ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: PLU PHANTOM BANKS 20-25-31 FLOWLINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 07/30/24 14:25.

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

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/25/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

# Sample ID: FS 01 5' (H244527-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.93	96.6	2.00	1.02	
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	216	108	200	3.03	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	189	94.3	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/25/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	XTO		

# Sample ID: FS 02 5' (H244527-02)

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	07/31/2024	ND	1.93	96.6	2.00	1.02	
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	216	108	200	3.03	
DRO >C10-C28*	14.1	10.0	07/31/2024	ND	189	94.3	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	139	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/25/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	XTO		

# Sample ID: FS 03 4' (H244527-03)

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	07/31/2024	ND	1.93	96.6	2.00	1.02	
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	216	108	200	3.03	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	189	94.3	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/25/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	XTO		

# Sample ID: FS 04 4' (H244527-04)

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	07/31/2024	ND	1.93	96.6	2.00	1.02	
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	216	108	200	3.03	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	189	94.3	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	134 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	145 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/25/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

# Sample ID: FS 05 4' (H244527-05)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.93	96.6	2.00	1.02	
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	216	108	200	3.03	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	189	94.3	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	123	48.2-13	4						
Surrogate: 1-Chlorooctadecane	132	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/25/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	XTO		

# Sample ID: FS 06 4' (H244527-06)

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	07/31/2024	ND	1.93	96.6	2.00	1.02	
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	216	108	200	3.03	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	189	94.3	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	114 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/25/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

### Sample ID: FS 07 4' (H244527-07)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.93	96.6	2.00	1.02	
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	216	108	200	3.03	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	189	94.3	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	116 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/25/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

# Sample ID: FS 08 4' (H244527-08)

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	07/31/2024	ND	1.93	96.6	2.00	1.02	
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	nalyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	216	108	200	3.03	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	189	94.3	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/25/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

### Sample ID: SW 01 0-4' (H244527-09)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.93	96.6	2.00	1.02	
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	nalyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	216	108	200	3.03	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	189	94.3	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

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ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/25/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

# Sample ID: SW 02 0-4' (H244527-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.93	96.6	2.00	1.02	
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	lyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	216	108	200	3.03	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	189	94.3	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	136	% 49.1-14	8						

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ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/25/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

# Sample ID: SW 03 0-4' (H244527-11)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.93	96.6	2.00	1.02	
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	216	108	200	3.03	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	189	94.3	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

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ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/25/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	XTO		

# Sample ID: SW 04 0-4' (H244527-12)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.93	96.6	2.00	1.02	
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	216	108	200	3.03	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	189	94.3	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

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ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/25/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

### Sample ID: PH 03 0.5' (H244527-13)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.93	96.6	2.00	1.02	
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	nalyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	216	108	200	3.03	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	189	94.3	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	129	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	142	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/25/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

# Sample ID: PH 03A 5' (H244527-14)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.93	96.6	2.00	1.02	
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	209	104	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	99.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/25/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

### Sample ID: PH 04 0.5' (H244527-15)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.93	96.6	2.00	1.02	
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	209	104	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/25/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

# Sample ID: PH 04A 5' (H244527-16)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.93	96.6	2.00	1.02	
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	nalyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	209	104	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	97.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/26/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

# Sample ID: FS 09 4' (H244527-17)

BTEX 8021B	mg	/kg	Analyze	d By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/31/2024	ND	1.93	96.6	2.00	1.02		
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67		
Total BTEX	<0.300	0.300	07/31/2024	ND						
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4							
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	209	104	200	2.32		
DRO >C10-C28*	10.6	10.0	07/31/2024	ND	179	89.4	200	0.570		
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND						
Surrogate: 1-Chlorooctane	115 9	% 48.2-13	4							
Surrogate: 1-Chlorooctadecane	148	% 49.1-14	8							

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/26/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

# Sample ID: FS 10 4' (H244527-18)

BTEX 8021B	mg	/kg	Analyze	d By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/31/2024	ND	1.93	96.6	2.00	1.02		
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64		
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06		
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67		
Total BTEX	<0.300	0.300	07/31/2024	ND						
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/31/2024	ND	448	112	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	07/31/2024	ND	209	104	200	2.32		
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	179	89.4	200	0.570		
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND						
Surrogate: 1-Chlorooctane	105	% 48.2-13	4							
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8							

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/26/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	XTO		

# Sample ID: FS 11 4' (H244527-19)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.93	96.6	2.00	1.02	
Toluene*	<0.050	0.050	07/31/2024	ND	1.89	94.6	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	1.91	95.6	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	5.66	94.3	6.00	1.67	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/31/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	2.32	
DRO >C10-C28*	12.1	10.0	08/01/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	139	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/26/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

# Sample ID: FS 12 4' (H244527-20)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/31/2024	ND	448	112	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	209	104	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	140	% 49.1-14	8						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/26/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	XTO		

# Sample ID: FS 13 4' (H244527-21)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	209	104	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	139	% 49.1-14	8						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/26/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	XTO		

# Sample ID: FS 14 4' (H244527-22)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	209	104	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	142	% 49.1-14	8						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/26/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	XTO		

#### Sample ID: FS 15 4' (H244527-23)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/31/2024	ND	464	116	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	07/31/2024	ND	209	104	200	2.32	
DRO >C10-C28*	41.1	10.0	07/31/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	12.8	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	137	% 49.1-14	8						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/26/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

#### Sample ID: FS 16 4' (H244527-24)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/31/2024	ND	464	116	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	07/31/2024	ND	209	104	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	115 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	148	% 49.1-14	8						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Sampler - UPS - Bus		Relinquished By:	titto	annuluisned by:	Affiliates or successors arising	lyses. All claims including those for ne vice. In no event shall Cardinal be liabl	PLEASE NOTE: Liability and	1	a	~	16	0	10	:0	e	1	Lab I.D.	- UNDE UNE UNET	Sampler Name: Connor	Project Location:	Project Name:	Project #: : 0	Phone #: 33/	City: Carisbad	Address: 3122	Project Manage	Company Name:	
- Other:		et.	3		out of or rel	All claims including those for negligence and any other c in no event shall Cardinal be liable for incidental or consection.	Damages. Cardinal's liability and clie	C1/09	Roca	F)OT	4206	roos	FS04	153	4502	1201	Sample I.D.		Connor Whitman		PLU Phantom E	: 03C1558434	337 257-8307	ad	Address: 3122 National Parks Hwy	Project Manager: David Mcinnis	e: Ensolum, LLC	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
Corrected Temp. C	Time:	Date:	Tippe:	Date: 20-20	uternal damages, including y of services hereunder by Ca		nt's exclusive remedy for any claim	0-4	) 			- c	4	1	5	N	Sample Depth (feet)				3anks 20-25-3	Project Owner: XTO	Fax #:	State: NM				Hobbs, NM 88 AX (575) 393-2
Sample Condition Cool Intact Ves Xes		Received By:	000.00	Received By:	including without limitation, business interruptions, loss inder by Cardinal, regardless of whether such claim is be	ang whether based in contrac ved unless made in writing ar	J V										(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	P. MATRIX			PLU Phantom Banks 20-25-31 Flowline Leak	T: XTO		Zip: 88220				3240 1476
n CHECKED BY:				0.0000 Provide 10.000	If use, or loss of profits incu sed upon any of the above :	r lort, shall be limited to the amount paid by the eceived by Cardinal within 30 days after compared by the compare	*									-	OTHER : ACID/BASE: ICE / COOL OTHER :	PRESERV.	Fax #:		State: NM Zip	city: Carlsbad	Address: 3104 E	Attn: Amy Ruth	Company: XTO	P.O. #:	BILL	
Turna	Please	REMARKS:	All Results	Verbal Result:		ount paid by the client for the lays after completion of the appl	1 1205	1200	5511	1150	Shil	0pt1	1135	1130	-	_	DATE TIME	SAMPLING			Zip: 88220		E. Green St.		Energy Inc.		10	
3	Cost C	Isolum.cc	are email	ult:	S,	applicable	-					_	_	-	-	-	BTEX											
Rush	Cost Center: 1081581001	om, TMorrissey@ens	All Results are emailed. Please provide Email address:	Yes No A												-	TPH CHLORIDE		-							-		
Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C	Incident ID: NAPP2418355674	bbelill@ensolum.com, TMorrissey@ensolum.com, dmcInnis@ensolum.com EMARKS:	e Email address:	Add'I Phone #:		-																					ANALYSIS DECLIEST	<i>f</i> <sup>2</sup>

# Page 76 of 137

Sampler - UPS - Bus - Ot		Relinquished By:	CARA	Relinquished By:	vice. In no event shall Cardinal be liable for i liates or successors arising out of or related t	PLEASE NOTE: Liability and Damages. Cardinal's liabilinalyses. All claims including those for neglicence and	20	19	18	15	10	14	10	12	11	Lab I.D.	CONTRACT OF CALL	FOR LABUSE ONLY	Project Location:	Project Name:	Project #: : 0;	Phone #: 33/	0	Address: 5122	Project Manage	Company Name:	Company Name
her:					and naily current of a standard of a standard of a standard of a standard to the performance	amages. Cardinal's liability and clie hose for neolicence and any other of	FSI2	FCh	FCIO	FK-04	PHOY	needd	1403	SVOY	SOMS	Sample I.D.		FOR LAB INFORMATION		PLU Phantom E	: 03C1558434	337 257-8307	D 2000	Address: 3122 National Parks Hwy	Project Manager: David Mcinnis	Ensolum, LLC	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
Corracted Temp. °C	Time:	Date:	Time:	Date:	ause whatsoever shall be deemed wai uvental damages, including without limi of services hereunder by Cardinal, rece	nt's exclusive remedy for any claim	- 1	2.2	2-2	5	0.5	2	0.5	1-0	0-4	Sample Depth (feet)				3anks 20-25-3	Project Owner: XTO	Fax #:	State: NM				Hobbs, NM 88 AX (575) 393-2
Sample Condition Cool Intact		Received By:		Received By:	ation, business interruption rolless of whether such cla	Y Claim arising whether based in contract or			C	4			2	C	C 1	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	. MATRIX			Banks 20-25-31 Flowline Leak	r: XTO		Zip: 88220				8240 2476
n CHECKED BY:				pased upon any of the above state	s of use, or loss of p	r tort, shall be limited to the amount			7-24-24	4					7-25-24	OTHER : ACID/BASE: ICE / COOL OTHER :	PRESERV.	Fax #:		State: NM Zip: 8	city: Carlsbad	Address: 3104 E	Attn: Amy Ruth	Company: XTO E	P.O. #:	BILL	
Turnaround Time: Thermometer ID #4	Please se	REMARKS:	All Results are	Verbal Result:	after by cli	1 G 10	1015	1010	24 005	1420	1355	1325	1300	1215	24 1210	TIME	SAMPLING			Zip: 88220		Green St.		Energy Inc.		70	
me: Sta	end conv of signed COC to	lum.com, TMc	emailed. Ple	Yes	licable										-	BTEX TPH	_					_					
Standard Rush	081581001	rrissey@ens	ase provide	I No Ad		F										CHLORIDE		_	_	_	_	_	_	_			
around Time: Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	Incident ID: NAPP2418355674	bbelill@ensolum.com, TMorrissey@ensolum.com, dmcInnis@ensolum.com EMARKS: Cont Conton	All Results are emailed. Please provide Email address:	Add'l Phone #:	and the second se																					ANALYSIS REDUEST	22

# Received by OCD: 12/9/2024 3:19:25 PM

# Page 77 of 137

Relinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Froject manager: David Mcinnis         Address: 3122 National Parks Hwy         City: Carlsbad         Phone #: 337 257-8307         Project Name: PLU Phantom Ba         Project Location:         Sampler Name: Connor Whitman         For Use USE ONLY         Address J         For Use USE ONLY         Address J         For Use USE ONLY         Sampler Name: Connor Whitman         For Use USE ONLY         Address J         FS I3         B3         FS I3         B4         B5         B5         B4         B5         B5         B4         B5         B5         B4         B5         B5         B5         B4         B5         B5         B5         B4         B5         B5         B5         B4         B5         B5         B5         B5         B5         B5         B5         B5	101 East Marlan (575) 393-2326 Company Name: Ensolum, LLC
Date: Date: Correct Tamp. 'C Corrected Tamp. 'C	Hwy State:.NM Fax #: Project Owner m Banks 20-25-31 m Banks 20-25-31 (feet) (feet) 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Ensolum, LLC
Received By: Received By: Cool Intact Cool Intact Dres IL Yes	OIL R	240 476
CHECKED BY: (Initials)	P.O. #: Company: XTO Energy Inc. Attn: Amy Ruth Address: 3104 E. Green St City: Carlsbad State: NM Zip: 88220 Phone #: Fax #: Fax #: PRESERV: SAMPLING OTHER: DATE TIME 7-2.644 1025 1035 1040 1040	BILL TO
Verbal Result: All Results are em bbeliil@ensolum REMARKS: Cos Please send of Turnaround Time: Thermometer ID 444	Energy Inc. Green St. 88220 88220 102 103 103 103 103 104 104 104 104 104 104 104 104 104 104	6
t:  Yes e emailed. I olum.com, T Cost Center end copy of s ime:  S	BTEX	
Image: Standard Please provide Email address:       aemailed. Please provide Email address:       plum.com, TMorrissey@ensolum.com, dmcIr       Cost Center:     1081581001       Incident I       cost Center:     1081581001       Incident I       and copy of signed COC to:     cwhitman@enso       me:     Standard       Rush     Cool Intact       Image: Standard     Dyse: Type: Ty	CHLORIDE	
erbal Result:       Yes       No       Add'l Phone #:         I Results are emailed.       Please provide Email address:         bbelill@ensolum.com, TMorrissey@ensolum.com, dmcInnis@ensolum.com         EMARKS:       Cost Center. 1081581001       Incident ID: NAPP24183556         Please send copy of signed COC to:       cwhitman@ensolum.com         Please send copy of signed COC to:       cwhitman@ensolum.com         rmaround Time:       Standard       Cool Intact (only) Sample Condinates (only) Sample Condinates (only)         amometer ID       #444.       Image: Cool Intact (only)       Observed Te		ANAI YSIS R
Phone #: ail address: 1.com, dmcInnis@ensolum.com Incident ID: NAPP2418355674 Iman@ensolum.com Bacteria (only) Sample Condition Cool Intact Observed Temp. °C		3



August 02, 2024

DAVID MCINNIS ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: PLU PHANTOM BANKS 20-25-31 FLOWLINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 07/30/24 14:25.

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

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/26/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

# Sample ID: PH 05 0.5' (H244529-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	07/31/2024	ND	1.96	98.2	2.00	5.95	
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	2.32	
DRO >C10-C28*	12.8	10.0	08/01/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	136 9	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/26/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

#### Sample ID: PH 05A 5' (H244529-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	07/31/2024	ND	1.96	98.2	2.00	5.95			
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	2.32	
DRO >C10-C28*	17.2	10.0	08/01/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0 10.0		08/01/2024	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	142 9	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/26/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

#### Sample ID: PH 06 0.5' (H244529-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	07/31/2024	ND	1.96	98.2	2.00	5.95			
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	2.32	
DRO >C10-C28*	23.4	10.0	08/01/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	prooctadecane 64.0 % 49.1-148								

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/26/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

#### Sample ID: PH 06A 5' (H244529-04)

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	07/31/2024	ND	1.96	98.2	2.00	5.95		
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/31/2024	ND	464	116	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	2.32	
DRO >C10-C28*	15.7	10.0	08/01/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0 10.0		08/01/2024	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.3	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/26/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	XTO		

#### Sample ID: PH 07 0.5' (H244529-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	07/31/2024	ND	1.96	98.2	2.00	5.95			
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/31/2024 ND		464	116	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	07/31/2024	ND	209	104	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0 10.0		07/31/2024 ND						
Surrogate: 1-Chlorooctane	113 % 48.2-134		4						
Surrogate: 1-Chlorooctadecane	147 9	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	07/30/2024	Sampling Date:	07/26/2024
Reported:	08/02/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

#### Sample ID: PH 07A 5' (H244529-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	07/31/2024	ND	1.96	98.2	2.00	5.95			
Toluene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	5.60	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.15	107	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.59	110	6.00	5.45	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/31/2024 ND		464	116	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	07/31/2024	ND	209	104	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	179	89.4	200	0.570	
EXT DRO >C28-C36	<10.0 10.0		07/31/2024 ND						
Surrogate: 1-Chlorooctane	91.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever 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 whose 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 whose site to the services interruptors, loss of profits incurred by client, its subsidiaries, afflictes or successor arising out of or related to 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. Keine

Celey D. Keene, Lab Director/Quality Manager

Delivered By: (Circle One) Sampler - UPS - Bus - Oti	Relinquished By:	Relinquished By:	service. In no event shall Ca affiliates or successors arisin	PLEASE NOTE: Liability an analyses, All claims includin			6	5	4	U	2	1	Lab I.D.	FOR LAB USE ONLY	Sampler Name: Connor Whitman	Project Location:	Project Name:		le #:	city: Carlsbad	Address: 3122 N	Project Manager: David Mcinnis	Company Name:	1
Bus - Other:	V:	'n	ardinal be liable for incidental or co	d Damages. Cardinal's liability and g those for negligence and any ot			PH07A	PH07	PHOGA	PHOL	PHOSA	PHOS	Sample I.D.		Connor Whitman		PLU Phantom Banks 20-25-31 Flowline	: 03C1558434	337 257-8307		Address: 3122 National Parks Hwy	David Mcinnis	Ensolum LLC	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
Corrected Temp. "C	Date: Time:	Time	ince of services hereunder by C	client's exclusive remedy for any claim her cause whatsoever shall be deemed			S	0.5	5	0.5	5	0.5	Sample Depth (feet)				Banks 20-25-31	Project Owner: XTO	Fax #:	State:NM	vy			Hobbs, NM 8824 AX (575) 393-247
Sample Condition Cool Intact	Received By:	Received by.	ardinal, regardless of whether such claim i	arising whether waived unless r limitation, busin			V V V					100 .	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	MATRIX			Leak			Zip: 88220		7		6 0
on CHECKED BY: (Initials)			is based upon any of the above stated n	based is contract or tort, shall be limited to the amount paid by the client for the made in writing and received by Cardinal within 30 days after completion of the a ess interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.			V V					7-26-24	OTHER : ACID/BASE: ICE / COOL OTHER :	PRESERV. SAME	1	Phone #:	State: NM Zip: 88220	city: Carlsbad	Address: 3104 E. Green		Company: XTO Energy	P.O. #:	BILL TO	
Turnaround Time: Thermometer ID #4 Correction Factor	REMARKS: C	All Results are (	Verbal Result:	by the client for the completion of the applic ent, its subsidiaries,	4		355	1350	1230	1205	1225	lice	BTEX	SAMPLING			0		en St.	2	Jy Inc.			
Rush HAD	ARKS: Cost Center: 1081581001 Incident ID: NAPF Please send copy of signed COC to: cwhitman@ensolum.com	emailed. Please provide Email address: um.com. TMorrissev@ensolum.com, dmclr	Ves No Add	able		27							- TPH CHLORIDE										ANA	
Cool Intact Observed Temp. °C	Incident ID: NAPP2418355674 cwhitman@ensolum.com	I Results are emailed. Please provide Email address: hhelil@ensolum.com. TMorrissey@ensolum.com, dmcInnis@ensolum.com	Add'I Phone #:																				ANALYSIS REQUEST	

# Received by OCD: 12/9/2024 3:19:25 PM

# Page 87 of 137



September 25, 2024

TRACY HILLARD ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: PLU PHANTOM BANKS 20-25-31 FLOWLINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 09/10/24 13:00.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager

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# Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: PLU PHANTOM BANKS 20-2 Project Number: 03C1558434 Project Manager: TRACY HILLARD Fax To:	25-31 F Reported: 25-Sep-24 08:42	
--	--	--------------------------------------	--

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 20 1'	H245463-01	Soil	05-Sep-24 10:35	10-Sep-24 13:00
FS 21 1'	H245463-02	Soil	05-Sep-24 10:40	10-Sep-24 13:00
SW 05 0-1'	H245463-03	Soil	05-Sep-24 11:00	10-Sep-24 13:00
FS 22 2'	H245463-04	Soil	05-Sep-24 12:10	10-Sep-24 13:00
SW 06 0-2'	H245463-05	Soil	05-Sep-24 12:20	10-Sep-24 13:00

09/25/24 - Client changed the sample IDs on -01, -02 and -04 (see COC). This is the revised report and will replace the one sent on 09/12/24.

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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# Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220			Project Num Project Mana	ber: 03C		_	0-25-31 F	2	Reported: 25-Sep-24 08:4	42
				S 20 1'	.9)					
			HZ454	63-01 (Se	)  )					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	320		16.0	mg/kg	4	4091119	HM	11-Sep-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.9 %	71.5	-134	4091031	ЈН	11-Sep-24	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091029	MS	11-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091029	MS	11-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091029	MS	11-Sep-24	8015B	
Surrogate: 1-Chlorooctane			93.2 %	48.2	-134	4091029	MS	11-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			91.6 %	49.1	-148	4091029	MS	11-Sep-24	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

ENSOLUM 3122 NATIONAL PARKS HW CARLSBAD NM, 88220	Y		Project Num Project Mana	ber: 03C		_	0-25-31 F	2	Reported: 5-Sep-24 08:	42
FS 21 1' H245463-02 (Soil)										
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	272		16.0	mg/kg	4	4091119	HM	11-Sep-24	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method 80	21								
Benzene*	< 0.050		0.050	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091031	ЛН	11-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5	-134	4091031	ЛН	11-Sep-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091029	MS	11-Sep-24	8015B	
DRO >C10-C28*	50.1		10.0	mg/kg	1	4091029	MS	11-Sep-24	8015B	
EXT DRO >C28-C36	13.7		10.0	mg/kg	1	4091029	MS	11-Sep-24	8015B	
Surrogate: 1-Chlorooctane			95.7 %	48.2	-134	4091029	MS	11-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			95.7 %	49.1	-148	4091029	MS	11-Sep-24	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HV CARLSBAD NM, 88220	WY		Project Num Project Mana	ber: 03C			0-25-31 F	2	Reported: 5-Sep-24 08:	42
				V 05  0-1'						
			H245	463-03 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds Chloride	288		16.0	mg/kg	4	4091119	HM	11-Sep-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 802	21								
Benzene*	< 0.050		0.050	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091031	ЛН	11-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII	))		101 %	71.5	-134	4091031	ЛН	11-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091029	MS	11-Sep-24	8015B	
DRO >C10-C28*	61.7		10.0	mg/kg	1	4091029	MS	11-Sep-24	8015B	
EXT DRO >C28-C36	15.5		10.0	mg/kg	1	4091029	MS	11-Sep-24	8015B	
Surrogate: 1-Chlorooctane			94.8 %	48.2	-134	4091029	MS	11-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			93.4 %	49.1	-148	4091029	MS	11-Sep-24	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220			Project Num Project Mana	ber: 03C		-	0-25-31 F	2	Reported: 5-Sep-24 08:	42
FS 22 2' H245463-04 (Soil)										
					)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	4091119	HM	11-Sep-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.6 %	71.5	-134	4091031	JH	11-Sep-24	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091029	MS	11-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091029	MS	11-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091029	MS	11-Sep-24	8015B	
Surrogate: 1-Chlorooctane			89.2 %	48.2	-134	4091029	MS	11-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			87.2 %	49.1	-148	4091029	MS	11-Sep-24	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220		Project:PLU PHANTOM BANKS 20-25-31 FReported:Project Number:03C155843425-Sep-24 08:42Project Manager:TRACY HILLARDFax To:Fax To:								
SW 06 0-2' H245463-05 (Soil)										
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	4091119	HM	11-Sep-24	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091031	JH	11-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091031	ЛН	11-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.2 %	71.5	-134	4091031	JH	11-Sep-24	8021B	
Petroleum Hydrocarbons by GO	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091029	MS	11-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091029	MS	11-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091029	MS	11-Sep-24	8015B	
Surrogate: 1-Chlorooctane			100 %	48.2	-134	4091029	MS	11-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			98.1 %	49.1	-148	4091029	MS	11-Sep-24	8015B	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

# Analytical Results For:

# **Inorganic Compounds - Quality Control**

Cardinal Laboratories										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4091119 - 1:4 DI Water										
Blank (4091119-BLK1)	Prepared & Analyzed: 11-Sep-24									
Chloride	ND	16.0	mg/kg							
LCS (4091119-BS1)				Prepared &	& Analyzed:	11-Sep-24				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (4091119-BSD1)	Prepared & Analyzed: 11-Sep-24									
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUMProject:PLU PHANTOM E3122 NATIONAL PARKS HWYProject Number:03C1558434CARLSBAD NM, 88220Project Manager:TRACY HILLARDFax To:Fax To:Fax To:	25-Sep-24 08:42
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#### Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal	Labo	ratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4091031 - Volatiles										
Blank (4091031-BLK1)				Prepared: 1	0-Sep-24 A	analyzed: 1	1-Sep-24			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	71.5-134			
LCS (4091031-BS1)				Prepared: 1	0-Sep-24 A	analyzed: 1	1-Sep-24			
Benzene	1.95	0.050	mg/kg	2.00		97.4	82.8-130			
Toluene	1.88	0.050	mg/kg	2.00		93.8	86-128			
Ethylbenzene	1.86	0.050	mg/kg	2.00		92.9	85.9-128			
m,p-Xylene	3.72	0.100	mg/kg	4.00		92.9	89-129			
o-Xylene	1.82	0.050	mg/kg	2.00		90.8	86.1-125			
Total Xylenes	5.53	0.150	mg/kg	6.00		92.2	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0499		mg/kg	0.0500		99.8	71.5-134			
LCS Dup (4091031-BSD1)				Prepared: 1	0-Sep-24 A	analyzed: 1	1-Sep-24			
Benzene	1.97	0.050	mg/kg	2.00		98.4	82.8-130	0.997	15.8	
Toluene	1.90	0.050	mg/kg	2.00		94.9	86-128	1.22	15.9	
Ethylbenzene	1.89	0.050	mg/kg	2.00		94.5	85.9-128	1.69	16	
m,p-Xylene	3.79	0.100	mg/kg	4.00		94.8	89-129	1.99	16.2	
o-Xylene	1.85	0.050	mg/kg	2.00		92.6	86.1-125	1.91	16.7	
Total Xylenes	5.64	0.150	mg/kg	6.00		94.0	88.2-128	1.96	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	71.5-134			

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: P Project Number: 0 Project Manager: T Fax To:		Reported: 25-Sep-24 08:42
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#### Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal	Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4091029 - General Prep - Organics										
Blank (4091029-BLK1)				Prepared: 1	10-Sep-24 A	nalyzed: 1	1-Sep-24			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52.6		mg/kg	50.0		105	48.2-134			
Surrogate: 1-Chlorooctadecane	52.9		mg/kg	50.0		106	49.1-148			
LCS (4091029-BS1)				Prepared: 1	10-Sep-24 A	nalyzed: 1	1-Sep-24			
GRO C6-C10	189	10.0	mg/kg	200		94.3	66.4-123			
DRO >C10-C28	185	10.0	mg/kg	200		92.6	66.5-118			
Total TPH C6-C28	374	10.0	mg/kg	400		93.5	77.6-123			
Surrogate: 1-Chlorooctane	54.7		mg/kg	50.0		109	48.2-134			
Surrogate: 1-Chlorooctadecane	53.2		mg/kg	50.0		106	49.1-148			
LCS Dup (4091029-BSD1)				Prepared: 1	10-Sep-24 A	nalyzed: 1	1-Sep-24			
GRO C6-C10	200	10.0	mg/kg	200		100	66.4-123	5.78	17.7	
DRO >C10-C28	196	10.0	mg/kg	200		98.1	66.5-118	5.80	21	
Total TPH C6-C28	396	10.0	mg/kg	400		99.0	77.6-123	5.79	18.5	
Surrogate: 1-Chlorooctane	59.8		mg/kg	50.0		120	48.2-134			
Surrogate: 1-Chlorooctadecane	57.9		mg/kg	50.0		116	49.1-148			

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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 $6^{\circ}\text{C}$

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

PM*EASE NOTE: Liability and Damages. Cardinal's liability and claims makes All claims including those for negligence and any other cardinals randoms and any other cardinals or consequences that a second state of the performance of the perfor	Project Name:       PLU Phantom         Project Location:         Sampler Name:       Connor Whitman         FOR LAB USE ONLY       Sample I.D.         Lab I.D.       Sample I.D.         HQHSHUS       X         1       5%         2       5%         3       5%         4       5%         5       5%         5       5%	72 3C	101 East Marland, H (575) 393-2326 FA Project Manager: Tracy Hillard Address: 3122 National Parks Hwy
and clarks window is any claim a rising whether based in contract or tot, shall be limited to be amount paid by the claim to the applicable.  Parte: Time: Received By: Received	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE SAMP	State:NM Zip: 88220 Fax #: Project Owner: XTO	COFIES obbs, NM 88240 X (575) 393-2476 P.O. #:
wid by the diant for the trompleten of the applicable         aid by the diant for the trompleten of the applicable         aid by the diant for the trompleten of the applicable         aid by the diant for the trompleten of the applicable         aid by the diant for the trompleten of the applicable         aid by the diant for the trompleten of the applicable         aid by the diant for the trompleten of the applicable         aid to the trompleten of the treatment of the treatment of the applicable         aid to the trompleten of the treatment of the applicable         aid to the treatment of the t	220       00       5       BTEX         -       -       BTEX         -       -       CHLORIDE         -       -       -         -       - <td>n St.</td> <td>CHAIN-OF-CUSTODY AND ANALYSIS REQUEST</td>	n St.	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



September 16, 2024

DAVID MCINNIS ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: PLU PHANTOM BANKS 20-25-31 FLOWLINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 09/12/24 15:39.

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

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	09/12/2024	Sampling Date:	09/11/2024
Reported:	09/16/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

# Sample ID: FS 23 4' (H245547-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	09/13/2024	ND	2.21	110	2.00	0.422	
Toluene*	<0.050	0.050	09/13/2024	ND	2.25	113	2.00	2.42	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.45	122	2.00	2.72	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.42	124	6.00	2.86	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	400	16.0	09/13/2024	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	Qualifie
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	194	96.8	200	0.472	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	199	99.6	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	64.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.2	% 49.1-14	0						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	09/12/2024	Sampling Date:	09/11/2024
Reported:	09/16/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

#### Sample ID: SW 08 0-4' (H245547-02)

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	09/13/2024	ND	2.21	110	2.00	0.422	
Toluene*	<0.050	0.050	09/13/2024	ND	2.25	113	2.00	2.42	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.45	122	2.00	2.72	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.42	124	6.00	2.86	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 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	144	16.0	09/13/2024	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	09/13/2024	ND	194	96.8	200	0.472	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	199	99.6	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	85.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	09/12/2024	Sampling Date:	09/11/2024
Reported:	09/16/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

#### Sample ID: SW 09 0-4' (H245547-03)

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	09/13/2024	ND	2.21	110	2.00	0.422	
Toluene*	<0.050	0.050	09/13/2024	ND	2.25	113	2.00	2.42	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.45	122	2.00	2.72	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.42	124	6.00	2.86	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	208	16.0	09/13/2024	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	09/13/2024	ND	194	96.8	200	0.472	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	199	99.6	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	79.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	09/12/2024	Sampling Date:	09/11/2024
Reported:	09/16/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

#### Sample ID: SW 07 0-4' (H245547-04)

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	09/13/2024	ND	2.21	110	2.00	0.422	
Toluene*	<0.050	0.050	09/13/2024	ND	2.25	113	2.00	2.42	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.45	122	2.00	2.72	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.42	124	6.00	2.86	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 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	256	16.0	09/13/2024	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	09/13/2024	ND	194	96.8	200	0.472	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	199	99.6	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	78.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.7	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	09/12/2024	Sampling Date:	09/11/2024
Reported:	09/16/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	XTO		

#### Sample ID: SW 10 0-4' (H245547-05)

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	09/13/2024	ND	2.21	110	2.00	0.422	
Toluene*	<0.050	0.050	09/13/2024	ND	2.25	113	2.00	2.42	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.45	122	2.00	2.72	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.42	124	6.00	2.86	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 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	224	16.0	09/13/2024	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	09/13/2024	ND	194	96.8	200	0.472	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	199	99.6	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	74.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.0	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	09/12/2024	Sampling Date:	09/11/2024
Reported:	09/16/2024	Sampling Type:	Soil
Project Name:	PLU PHANTOM BANKS 20-25-31 FLOWL	Sampling Condition:	Cool & Intact
Project Number:	03C1558434	Sample Received By:	Alyssa Parras
Project Location:	ХТО		

#### Sample ID: FS 29 6' (H245547-06)

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	09/13/2024	ND	2.21	110	2.00	0.422	
Toluene*	<0.050	0.050	09/13/2024	ND	2.25	113	2.00	2.42	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.45	122	2.00	2.72	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.42	124	6.00	2.86	
Total BTEX	<0.300	0.300	09/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	224	16.0	09/13/2024	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	09/13/2024	ND	194	96.8	200	0.472	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	199	99.6	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					
Surrogate: 1-Chlorooctane	85.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		BILL TO	ANALYSIS
Project Manager: David Mcinnis		P.O. #:	
Address: 3122 National Parks Hwy		Energy	Inc.
	state:NM Zip: 88220	1-	
ne #: 337 257-8307		Address: 3104 E. Green	an St.
: 03C1558434	Project Owner: XTO	city: Carlsbad	
ame: PLU Phantom	Banks 20-25-31 Flowline Leak	State: NM Zip: 88220	
		Phone #:	
Project Location:		720 4.	
Sampler Name: Connor Whitman		1	
ampler value, comment	MATRIX	PRESERV. SAMPLING	ING
Lab I.D. Sample I.D.	(feet) B)RAB OR (C)OMP. CONTAINERS ROUNDWATER ASTEWATER OIL	LUDGE DTHER : CID/BASE: CE / COOL DTHER :	BTEX TPH CHLORIDE
HCHSS41 CC22	1) # V - S		925
~	0-4' 1 1		100
BURIS &	0-4' 11		105
	4		1115
	1-0 -4		1120
6 529	P. 7 M M	4	1350 W W W
/			
PLEASE NOTE: Lability 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 pad by the client for the appli analyses. All claims including those for negligence and any other cause whatsoever shall be demend waived unless made in writing and received by Cardinal within 30 days after completion of the appli analyses. All claims including those for negligence and any other cause whatsoever shall be demend waived unless made in writing and received by Cardinal within 30 days after completion of the appli analyses. All claims including those for negligence and any other cause whatsoever shall be demend waived unless made in writing and received by claim. Its subsidiaries, analyses.	nt's exclusive remedy for any claim arising whether based in co ause whatscerver shall be deemed waived unless made in write ause whatscerver shall be deemed waived unless made in write	arising whether based in contract or tort, shall be limited to the amount paid waived unless made in writing and received by Cardinai wethin 30 days after inachine bruchese internotions, loss of use, or loss of profits incurred by cli	un paid by the client for the ys after completion of the applicable ed by client, its subaidaries,
service. In no event shall Cardinal be lable for incurring our or correct affliates or successors arising out of or related to the performance - Relinquished By:	of services hereunder by Cardinal, regardless of whether such Date:	claim is based upon any of the above stated real	All Results are emailed. Please provide Email address:
Kelinquistied by.	12.24		All results are entitierer i rouce procession, dmcInnis@ensolum.com bbelill@ensolum.com, TMorrissey@ensolum.com, dmcInnis@ensolum.com
Relinquished By:	Date: Received By:	Ŭ	REMARKS: Cost Center: 1081581001
	Time:		C to: cwhi
Delivered By: (Circle One) O <sub>b</sub> Sampler - UPS - Bus - Other: C <sub>b</sub>	Corrected Temp. CA. St. Cool Intact	act (Initials)	Turnaround Time: Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. Thermometer ID #13 Corrected Temp

# Page 108 of 137

Laboratories



September 25, 2024

DAVID MCINNIS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU PHANTOM BANKS 20-25-31 FLOWLINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 09/19/24 13:15.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

# Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: PLL Project Number: 030 Project Manager: DA Fax To:		Reported: 25-Sep-24 08:54
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW 11 0-4	H245699-01	Soil	17-Sep-24 10:20	19-Sep-24 13:15
SW 12 0-4	H245699-02	Soil	17-Sep-24 10:25	19-Sep-24 13:15
SW 13 0-2	H245699-03	Soil	17-Sep-24 10:30	19-Sep-24 13:15
FS 30 2	H245699-04	Soil	17-Sep-24 10:45	19-Sep-24 13:15
FS 28 2	H245699-05	Soil	17-Sep-24 10:50	19-Sep-24 13:15
FS 25 4	H245699-06	Soil	17-Sep-24 10:55	19-Sep-24 13:15
FS 26 5	H245699-07	Soil	17-Sep-24 11:00	19-Sep-24 13:15
FS 27 4	H245699-08	Soil	17-Sep-24 11:05	19-Sep-24 13:15
FS 17 4	H245699-09	Soil	17-Sep-24 11:10	19-Sep-24 13:15
FS 18 4	H245699-10	Soil	17-Sep-24 11:15	19-Sep-24 13:15
FS 19 4	H245699-11	Soil	17-Sep-24 11:20	19-Sep-24 13:15
FS 24 4	H245699-12	Soil	17-Sep-24 11:25	19-Sep-24 13:15
SW 14 0-4	H245699-13	Soil	17-Sep-24 12:20	19-Sep-24 13:15

09/25/24 - Client changed the sample ID on -11 (see COC). This is the revised report and will replace the one sent on 09/23/24.

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220			Project Num Project Mana	ber: 03C			0-25-31 F	2	Reported: 5-Sep-24 08:	54
				V 11 0-4 599-01 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds Chloride	256		16.0	mg/kg	4	4092018	HM	20-Sep-24	4500-Cl-B	
			10.0	iiig/kg	7	4092018	11101	20-36p-24	4300-СІ-В	
Volatile Organic Compounds by		8021								
Benzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091923	ЛН	20-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091923	ЛН	20-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	71.5	-134	4091923	ЛН	20-Sep-24	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctane			97.6 %	48.2	-134	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			101 %	49.1	-148	4091927	MS	19-Sep-24	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	(		Project Num Project Mana	ber: 03C		_	0-25-31 F	2	Reported: 25-Sep-24 08:	54
				V 12 0-4 699-02 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds	254		16.0			4002018	IIM	20 5 24	4500 CL D	
Chloride	256		16.0	mg/kg	4	4092018	HM	20-Sep-24	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4091923	ЛН	20-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091923	ЛН	20-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091923	ЛН	20-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091923	ЛН	20-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091923	ЛН	20-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5	-134	4091923	ЛН	20-Sep-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctane			99.8 %	48.2	-134	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			104 %	49.1	-148	4091927	MS	19-Sep-24	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HW CARLSBAD NM, 88220	ſŶ		Project Num Project Mana	ber: 03C		_	)-25-31 F	2	Reported: 5-Sep-24 08:	54
				/ 13 0-2 599-03 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	272		16.0	mg/kg	4	4092018	HM	20-Sep-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091923	ЛН	20-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		101 %	71.5	-134	4091923	ЈН	20-Sep-24	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctane			93.6 %	48.2	-134	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			97.7 %	49.1	-148	4091927	MS	19-Sep-24	8015B	

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HV CARLSBAD NM, 88220	٧Y		Project Num Project Mana	ber: 03C			0-25-31 F	2	Reported: 5-Sep-24 08:	54
				'S 30 2 699-04 (So	sil)					
			11210	<b>0</b> )) <b>0</b> 1(5)	,,,,,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	432		16.0	mg/kg	4	4092018	HM	20-Sep-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80	21								
Benzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	))		101 %	71.5	-134	4091923	ЛН	20-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctane			89.4 %	48.2	-134	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			93.9 %	49.1	-148	4091927	MS	19-Sep-24	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HW CARLSBAD NM, 88220	ſY		Project Num Project Mana	ber: 03C			0-25-31 F	2	Reported: 5-Sep-24 08:	54
				S 28 2	.1)					
			H245	699-05 (So	)11)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	48.0		16.0	mg/kg	4	4092018	HM	20-Sep-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID	)		102 %	71.5	-134	4091923	JH	20-Sep-24	8021B	
Petroleum Hydrocarbons by (	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctane			103 %	48.2	-134	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			108 %	49.1	-148	4091927	MS	19-Sep-24	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HW CARLSBAD NM, 88220	ſY		Project Num Project Mana	ber: 03C		_	0-25-31 F	2	Reported: 5-Sep-24 08:	54
			-	S 25 4 699-06 (So	sil)					
			11245		,m)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	4092018	HM	20-Sep-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4091923	ЛН	20-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		102 %	71.5	-134	4091923	ЛН	20-Sep-24	8021B	
Petroleum Hydrocarbons by (	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctane			104 %	48.2	-134	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			108 %	49.1	-148	4091927	MS	19-Sep-24	8015B	

#### **Cardinal Laboratories**

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HV CARLSBAD NM, 88220	M		Project Num Project Mana	ber: 03C		_	0-25-31 F	2	Reported: 5-Sep-24 08:	54
				S 26 5 599-07 (So	sil)					
			112450		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	320		16.0	mg/kg	4	4092018	HM	20-Sep-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80	21								
Benzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091923	ЛН	20-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID	)		102 %	71.5	-134	4091923	ЈН	20-Sep-24	8021B	
Petroleum Hydrocarbons by (	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctane			102 %	48.2	-134	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			107 %	49.1	-148	4091927	MS	19-Sep-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HW CARLSBAD NM, 88220	ΥY		Project Num Project Mana	ber: 03C		_	0-25-31 F	2	Reported: 5-Sep-24 08:	54
			-	S 27 4 599-08 (So	sil)					
			11245	<b>577-00</b> (St	,m)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	4092018	HM	20-Sep-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		103 %	71.5	-134	4091923	ЛН	20-Sep-24	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctane			99.4 %	48.2	-134	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			107 %	49.1	-148	4091927	MS	19-Sep-24	8015B	

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ENSOLUM 3122 NATIONAL PARKS HW CARLSBAD NM, 88220	Ŷ		Project Num Project Mana	ber: 03C			0-25-31 F	2	Reported: 5-Sep-24 08:	54
				S 17 4						
			H245	699-09 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
<u>Inorganic Compounds</u> Chloride	272		16.0	mg/kg	4	4092018	HM	20-Sep-24	4500-Cl-B	
Volatile Organic Compounds I	oy EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091923	ЛН	20-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	1		102 %	71.5	-134	4091923	JH	20-Sep-24	8021B	
Petroleum Hydrocarbons by C	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctane			97.0 %	48.2	-134	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			102 %	49.1	-148	4091927	MS	19-Sep-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220		Project: PLU PHANTOM BANKS 20-25-31 F Project Number: 03C1558434 Project Manager: DAVID MCINNIS Fax To:								54				
	FS 18 4 H245699-10 (Soil)													
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
			Cardina	l Laborat	tories									
Inorganic Compounds														
Chloride	160		16.0	mg/kg	4	4092018	HM	20-Sep-24	4500-Cl-B					
Volatile Organic Compounds by	EPA Method	8021												
Benzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B					
Toluene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B					
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091923	ЛН	20-Sep-24	8021B					
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091923	ЛН	20-Sep-24	8021B					
Total BTEX	< 0.300		0.300	mg/kg	50	4091923	ЛН	20-Sep-24	8021B					
Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5	-134	4091923	JH	20-Sep-24	8021B					
Petroleum Hydrocarbons by GC	C FID													
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B					
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B					
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B					
Surrogate: 1-Chlorooctane			93.7 %	48.2	-134	4091927	MS	19-Sep-24	8015B					
Surrogate: 1-Chlorooctadecane			98.7 %	49.1	-148	4091927	MS	19-Sep-24	8015B					

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HW CARLSBAD NM, 88220	ſY		Project Num Project Mana	ber: 03C		_	0-25-31 F	2	Reported: 5-Sep-24 08:	54
				S 19 4 699-11 (So	<b>.</b> :1)					
			П245	099-11 (30	)11)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	4092018	HM	20-Sep-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID	))		102 %	71.5	-134	4091923	ЈН	20-Sep-24	8021B	
Petroleum Hydrocarbons by (	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctane			99.6 %	48.2	-134	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			104 %	49.1	-148	4091927	MS	19-Sep-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220			Project Num Project Num Project Mana Fax	Reported: 25-Sep-24 08:54										
	FS 24 4 H245699-12 (Soil)													
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
			Cardina	l Laborat	tories									
Inorganic Compounds														
Chloride	528		16.0	mg/kg	4	4092018	HM	20-Sep-24	4500-Cl-B					
Volatile Organic Compounds by	EPA Method	8021												
Benzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B					
Toluene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B					
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B					
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091923	JH	20-Sep-24	8021B					
Total BTEX	< 0.300		0.300	mg/kg	50	4091923	ЈН	20-Sep-24	8021B					
Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5	-134	4091923	ЈН	20-Sep-24	8021B					
Petroleum Hydrocarbons by GC	FID													
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B					
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B					
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B					
Surrogate: 1-Chlorooctane			92.9 %	48.2	-134	4091927	MS	19-Sep-24	8015B					
Surrogate: 1-Chlorooctadecane			97.1 %	49.1	-148	4091927	MS	19-Sep-24	8015B					

#### **Cardinal Laboratories**

\*=Accredited Analyte

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Page 123 of 137

#### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220			Project Num Project Num Project Mana Fax	Reported: 25-Sep-24 08:54						
				/ 14   0-4 599-13 (Sc						
Analyte	Result	MDL	Reporting	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
				l Laborat	ories					
Inorganic Compounds										
Chloride	304		16.0	mg/kg	4	4092018	HM	20-Sep-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4091923	ЛН	20-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091923	ЛН	20-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4091923	JH	20-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5	-134	4091923	ЛН	20-Sep-24	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctane			92.2 %	48.2	-134	4091927	MS	19-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			97.8 %	49.1	-148	4091927	MS	19-Sep-24	8015B	

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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# Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: Pl Project Number: 0: Project Manager: D Fax To:		Reported: 25-Sep-24 08:54	
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#### **Inorganic Compounds - Quality Control**

Cardinal Laboratories										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4092018 - 1:4 DI Water										
Blank (4092018-BLK1)				Prepared &	& Analyzed:	20-Sep-24				
Chloride	ND	16.0	mg/kg							
LCS (4092018-BS1)				Prepared &	& Analyzed:	20-Sep-24				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (4092018-BSD1)				Prepared &	& Analyzed:	20-Sep-24				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

#### **Cardinal Laboratories**

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: PLU PHAN Project Number: 03C15584 Project Manager: DAVID Mo Fax To:		Reported: 25-Sep-24 08:54
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#### Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal	Labo	ratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4091923 - Volatiles										
Blank (4091923-BLK1)				Prepared: 1	9-Sep-24 A	analyzed: 2	0-Sep-24			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	71.5-134			
LCS (4091923-BS1)				Prepared: 1	9-Sep-24 A	Analyzed: 2	0-Sep-24			
Benzene	2.12	0.050	mg/kg	2.00		106	82.8-130			
Toluene	2.07	0.050	mg/kg	2.00		104	86-128			
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	85.9-128			
m,p-Xylene	4.36	0.100	mg/kg	4.00		109	89-129			
o-Xylene	2.14	0.050	mg/kg	2.00		107	86.1-125			
Total Xylenes	6.51	0.150	mg/kg	6.00		108	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0524		mg/kg	0.0500		105	71.5-134			
LCS Dup (4091923-BSD1)				Prepared: 1	9-Sep-24 A	analyzed: 2	0-Sep-24			
Benzene	2.15	0.050	mg/kg	2.00		108	82.8-130	1.74	15.8	
Toluene	2.10	0.050	mg/kg	2.00		105	86-128	1.35	15.9	
Ethylbenzene	2.17	0.050	mg/kg	2.00		108	85.9-128	0.165	16	
m,p-Xylene	4.36	0.100	mg/kg	4.00		109	89-129	0.0457	16.2	
o-Xylene	2.14	0.050	mg/kg	2.00		107	86.1-125	0.283	16.7	
Total Xylenes	6.50	0.150	mg/kg	6.00		108	88.2-128	0.124	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	71.5-134			

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: Project Number: Project Manager: Fax To:		Reported: 25-Sep-24 08:54	
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# Petroleum Hydrocarbons by GC FID - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4091927 - General Prep - Organics										
Blank (4091927-BLK1)				Prepared &	Analyzed:	19-Sep-24				
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	49.4		mg/kg	50.0		98.8	48.2-134			
Surrogate: 1-Chlorooctadecane	51.4		mg/kg	50.0		103	49.1-148			
LCS (4091927-BS1)				Prepared &	z Analyzed:	19-Sep-24				
GRO C6-C10	194	10.0	mg/kg	200		96.8	66.4-123			
DRO >C10-C28	198	10.0	mg/kg	200		99.0	66.5-118			
Total TPH C6-C28	392	10.0	mg/kg	400		97.9	77.6-123			
Surrogate: 1-Chlorooctane	54.9		mg/kg	50.0		110	48.2-134			
Surrogate: 1-Chlorooctadecane	56.7		mg/kg	50.0		113	49.1-148			
LCS Dup (4091927-BSD1)				Prepared &	Analyzed:	19-Sep-24				
GRO C6-C10	196	10.0	mg/kg	200		98.1	66.4-123	1.30	17.7	
DRO >C10-C28	200	10.0	mg/kg	200		100	66.5-118	1.16	21	
Total TPH C6-C28	397	10.0	mg/kg	400		99.1	77.6-123	1.23	18.5	
Surrogate: 1-Chlorooctane	55.0		mg/kg	50.0		110	48.2-134			
Surrogate: 1-Chlorooctadecane	56.8		mg/kg	50.0		114	49.1-148			

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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 $6^{\circ}\text{C}$

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 1/3/2025 10:09:47 AM	

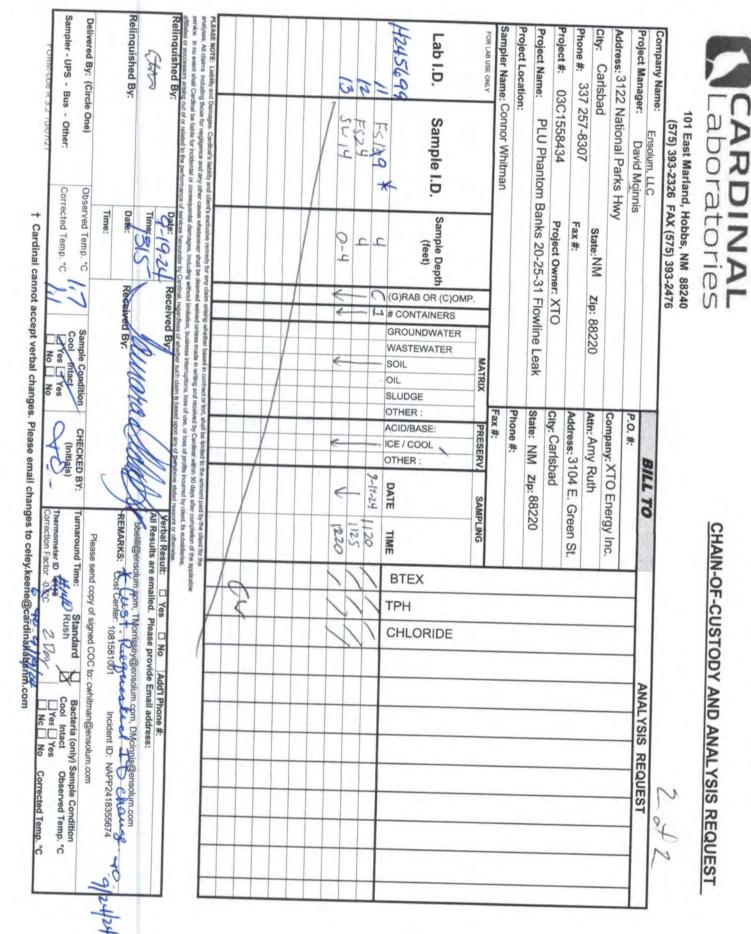
FURM	Sampler - UP:	Delivered By	Kelinquishe	2	Relinquishe	PLEASE NOTE: Lis analyses. All claims service. In no event							
000 R 3.2 10/0	S - Bus - Oth	: (Circle One)	d By:	A	od By:	including those for ne shall Cardinal be liable	10 FS	9 FS	S F2	7 Fs:	6 5	SK	4 55

+ Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinal/abs/nm.com

Ves Yes

Corrected Temp. °C

101 Ea (575)	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	M 88240 393-2476					1247
	Ensolum, LLC		BILL	10			
Project Manager: D	David Mcinnis				-		ANALYSIS REQUEST
Address: 3122 National Parks Hwy	al Parks Hwy		XTO	inneri Inn			
city: Carlsbad	State:NM	VM Zip: 88220	Attn: Amy Ruth	Lingigy inc.			
Phone #: 337 257-8307	-		Address 3104 F	Green St			
Project #: 03C1558434		Project Owner: XTO	City: Carlsbad		_		
Project Name: PLU	Phantom Banks 20-	PLU Phantom Banks 20-25-31 Flowline Leak	1.1	18000	_		
Project Location:			IVI	210:00220	_		
Sampler Name: Connor Whitman	Nhitman		Phone #:				
FOR LAB USE ONLY			Fax #:			_	
		3	TRESERV.	SAMPLING	-		
Lab I.D. Sam	Sample I.D. Sample Depth (feet)	(G)RAB OR (C) # CONTAINER GROUNDWATI WASTEWATER SOIL DIL SLUDGE		TIME	BTEX	CHLORIDE	
	0-4		9	-		+	
	2 0-4			1020			
U ML	0-2			020	-		
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those dinal b out of	Liveriti s'exclusive nam leir cause whatsoever hsequental damages, hce of services hereur	cursive namesy lot any claim raking whethat based in contract or tort, shu whatsoever shall be deemed wnived unless made in writing and received i i damages, including without limitation, business interruptions, loss of use, was hereunder by Cardioan monoclass of scheme mempions.	t, shall be limited to the amou lived by Cardinal within 30 day ruse, or loss of profits incurre	nt paid by the client for the safter completion of the appli d by client, its subsidiaries,			
the	Time: 9-2	Rece	All had	Verbal Results are	emailed. F	Verbal Result: Ves No Add'I Phone #: All Results are emailed. Please provide Email address:	Add'l Phone #: de Email address:
elinquished By:	Date:	Received By:	(man)	REMARKS: C	Cost Center:	ter: 1081581001	EMARKS: Cost Center: 1081581001 Incident ID: NAPD2418355674
Delivered By: (Circle One)	Observed Temp.	°C 1 7 Sample Condition		Please ser	nd copy	of signed COC to: cv	Please send copy of signed COC to: cwhitman@ensolum.com
ampler - UPS - Bus - Other:	Corrected Temp, *C		(Initials)	Iurnaround lime:	#/ち	Ho Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp °C
FURM-UUD R 3.2 TUIUTIZ			4	I hermometer it			



# Received by OCD: 12/9/2024 3:19:25 PM

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## Page 129 of 137

General Information Phone: (505) 629-6116

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

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

Page 130 of 137

QUESTIONS

Action 410121

QUESTIO	NS
Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	410121
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2418355674
Incident Name	NAPP2418355674 PLU PHANTOM BANKS 20-25-31 @ 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 Phantom Banks 20-25-31				
Date Release Discovered	06/10/2024				
Surface Owner	Federal				

#### Incident Details

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

#### Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	r the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Crude Oil   Released: 4 BBL   Recovered: 1 BBL   Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Produced Water   Released: 12 BBL   Recovered: 4 BBL   Lost: 8 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 410121

QUESTIONS (cc	ntinued)
Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	410121
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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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	e. gas only) are to be submitted on the C-129 form.

Initial Response		
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.		
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 12/09/2024	

General Information Phone: (505) 629-6116

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

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	410121
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release an	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

#### Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report de	monstrating the lateral and vertical extents of soil contamination	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertica	I extents of contamination been fully delineated	Yes
Was this release entirely c	ontained 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 CI B)	12000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	37320
GRO+DRO	(EPA SW-846 Method 8015M)	31760
BTEX	(EPA SW-846 Method 8021B or 8260B)	177
Benzene	(EPA SW-846 Method 8021B or 8260B)	4.7
	IMAC unless the site characterization report includes completed elines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date wi	II the remediation commence	06/14/2024
On what date will (or did) the	ne final sampling or liner inspection occur	09/17/2024
On what date will (or was)	the remediation complete(d)	09/17/2024
What is the estimated surfa	ace area (in square feet) that will be reclaimed	5572
What is the estimated volu	me (in cubic yards) that will be reclaimed	930
What is the estimated surfa	ace area (in square feet) that will be remediated	5572
What is the estimated volu	me (in cubic yards) that will be remediated	930
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

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

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Action 410121

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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

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QUESTIONS, Page 4

Action 410121

QUESTIONS (continued)		
Operator:	OGRID:	
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	
Midland, TX 79707	410121	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

#### QUESTIONS

Remediation Plan (continued)

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]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com

Date: 12/09/2024 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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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 5

Action 410121

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QUESTIONS (continued)		
Operator:	OGRID:	
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	
Midland, TX 79707	410121	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	
Requesting a deferral of the remediation closure due date with the approval of this submission	Νο

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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 6

Action 410121

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**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	410121
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	391342
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/18/2024
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	1000

#### **Remediation Closure Request**

Only answer the questions in this group if seeking remediation closure for this release because all re	emediation 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	5572
What was the total volume (cubic yards) remediated	930
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	5572
What was the total volume (in cubic yards) reclaimed	930
Summarize any additional remediation activities not included by answers (above)	Site assessment and excavation activities were conducted at the Site to address the June 10, 2024, release of crude oil and produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required. XTO has backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions
	losure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of
to report and/or file certain release notifications and perform corrective actions for releas the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 repor	knowledge and understand that pursuant to OCD rules and regulations all operators are required ses 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 t does not relieve the operator of responsibility for compliance with any other federal, state, or ally restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ng notification to the OCD when reclamation and re-vegetation are complete.

	Name: Colton Brown
I hereby agree and sign off to the above statement	Title: Environmental Advisor
Thereby agree and sign on to the above statement	Email: colton.s.brown@exxonmobil.com
	Date: 12/09/2024

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 7

Action 410121

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QUESTIONS (continued)		
Operator: XTO ENERGY, INC	OGRID: 5380	
6401 Holiday Hill Road Midland, TX 79707	Action Number: 410121	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
OUESTIONS		

#### 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		

General Information Phone: (505) 629-6116

Operator:

CONDITIONS

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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

CONDITIONS		
XTO ENERGY, INC	OGRID: 5380	
6401 Holiday Hill Road Midland, TX 79707	Action Number: 410121	
	Action Type:	

[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2418355674 PLU PHANTOM BANKS 20-25-31, thank you. This Remediation Closure Report is approved.	1/3/2025

CONDITIONS

Action 410121