



January 27, 2024

**New Mexico Oil Conservation Division**

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

**Re: Closure Request  
PLU CVX JV PC 11  
Incident Number NAPP2401641673  
Eddy County, New Mexico**

To Whom it May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities performed at the PLU CVX JV PC 11 (Site). The purpose of excavation and soil sampling activities, conducted in accordance with a *Remediation Work Plan (Work Plan)*, was to address impacts to soil resulting from a release of crude oil at the Site. Based on the excavation activities and analytical results from the soil sampling events, XTO is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2401641673.

**RELEASE SUMMARY AND BACKGROUND**

The Site is located in Unit F, Section 20, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.205624, -103.904817) and is associated with oil and gas exploration and production operations on Federal Land under the stewardship of the Bureau of Land Management (BLM).

On January 8, 2024, corrosion in a flowline resulted in the release of 2 barrels (bbls) of produced water and 4 bbls of crude oil to the Right-of-Way (ROW) and surrounding pasture area. In addition, 320 thousand cubic feet (MCF) of natural gas were vented. A vacuum truck was dispatched to the Site and recovered 5 bbls of the released fluids. XTO reported the release to the NMOCD via notification of release (NOR) and submitted a Form C-141 Application (C-141) on January 16, 2024. The release was assigned Incident Number NAPP2401641673.

Between March and April 2024, hand auger delineation of the release occurred, however, hand auger refusal was encountered at approximately 1 foot bgs in all areas of the release. Since the release occurred in a ROW and surrounding undisturbed pasture BLM land, a BLM Sundry form was submitted to the BLM. BLM responded on May 31, 2024, with requesting archeological and botany special status plant surveys be completed prior to subsurface disturbance. Following the completion of both surveys and positive survey results, BLM approved access to the area and Ensolum personnel returned to the Site in September 2024 to continue delineation of the release. The approved BLM Sundry form and BLM correspondence is included in Appendix A. The laboratory analytical results for delineation soil sample locations indicated impacted and waste-containing soil existed across an approximate 1,950 square foot area to approximately 3 feet deep. As such, in the *Work Plan*, XTO proposed excavation of the impacted and waste-containing soil, estimating removal of approximately 220 cubic yards of soil. In addition, XTO provided additional regional groundwater data because the nearest well was 0.59 miles from the Site and the most recent data was collected 26 years ago. A variance to accept the nearest well data in

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conjunction with data from 5 other wells within a 1.25 mile radius and apply the least stringent standards below 4 feet bgs was requested. The *Work Plan* was submitted October 8, 2024 and noted that excavation would begin as soon as possible as the BLM had granted access to the area. The *Work Plan* was denied for the following reasons:

*"The Remediation Closure Report [Work Plan] is Denied. Depth to groundwater is not adequately identified. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less. If you feel the depth to groundwater is >100', a shallow borehole can be drilled to 101' allowing for verification of the depth. If water is not visible after reaching bottom-hole and waiting 72 hours, the OCD will accept this as evidence. We would just need a copy of the driller's log. Shallow perched water zones are considered groundwater. These are not part of the major aquifer structure and exist all over southeastern New Mexico. Anything below 10,000 mg/L is protectable.*

*All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. All off-pad areas must meet reclamation/revegetation standards set forth in the OCD Spill Rule."*

Since XTO had proposed to apply the reclamation requirement in the top 4 feet in the *Work Plan* anyways, XTO proceeded with excavation of impacted and waste-containing soils as proposed. A copy of the *Work Plan* and associated correspondence the the NMOCD is included in Appendix B.

## SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table 1, 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). Based on the results of the Site Characterization and the ruling from the NMOCD in the denial of the *Work Plan*, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

## EXCAVATION SOIL SAMPLING ACTIVITIES

On November 19 and 20, 2024, Ensolum personnel returned to the Site to oversee excavation activities. Impacted soil was excavated from the release area as indicated by visible staining and laboratory analytical results for the delineation soil samples. Excavation activities were performed using hydrovacuum truck, track-mounted backhoe and transport vehicle. The excavation occurred in a ROW and surrounding pasture area. To direct excavation activities, soil was screened for volatile organic

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compounds (VOC) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The excavation was completed to depths ranging from 1-foot to 4 feet bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of the impacted soil, 5-point composite soil samples were collected at least every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS19 were collected from the floor of the excavation from depths ranging from 1-foot to 4 feet bgs. Composite soil samples SW01 through SW07 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 4 feet bgs.

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 Standard Method SM4500.

Laboratory analytical results for confirmation floor sample FS18, collected at 2.5 foot bgs indicated TPH concentrations exceeded the Closure Criteria. Ensolum personnel returned to the Site and removed additional soil in the area. A final confirmation soil sample, FS18A was collected at 4 feet bgs. The soil sample was collected, handled and analyzed as described above at Cardinal in Hobbs, NM. The excavation area measured approximately 3,770 square feet. A total of approximately 500 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. The Soil Disposal Manifests are included in Appendix D. The excavation extent and excavation soil sample locations are presented on Figure 1.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all final confirmation soil samples indicated all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix E.

## CLOSURE REQUEST

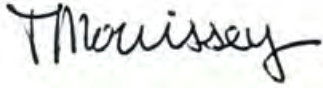
Site assessment and excavation activities were conducted at the Site to address the January 8, 2024, release. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation is required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. The disturbed pasture area will be re-seeded with an approved BLM seed mixture.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs, though not confirmed within 0.5 miles, and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2401641673.

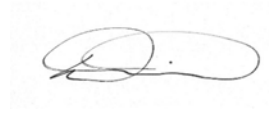
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If you have any questions or comments, please contact Ms. Ms. Tacoma Morrissey at (337) 257-8307 or [tmorrissey@ensolum.com](mailto:tmorrissey@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Tacoma Morrissey  
Associate Principal



Daniel R. Moir, PG  
Senior Managing Geologist

cc: Colton Brown, XTO  
Kaylan Dirkx, XTO  
BLM

Appendices:

Figure 1	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	October 8, 2024 <i>Remediation Work Plan</i> and Correspondence
Appendix B	BLM Sundry Form and Correspondence
Appendix C	Photographic Log
Appendix D	Soil Disposal Manifests
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation

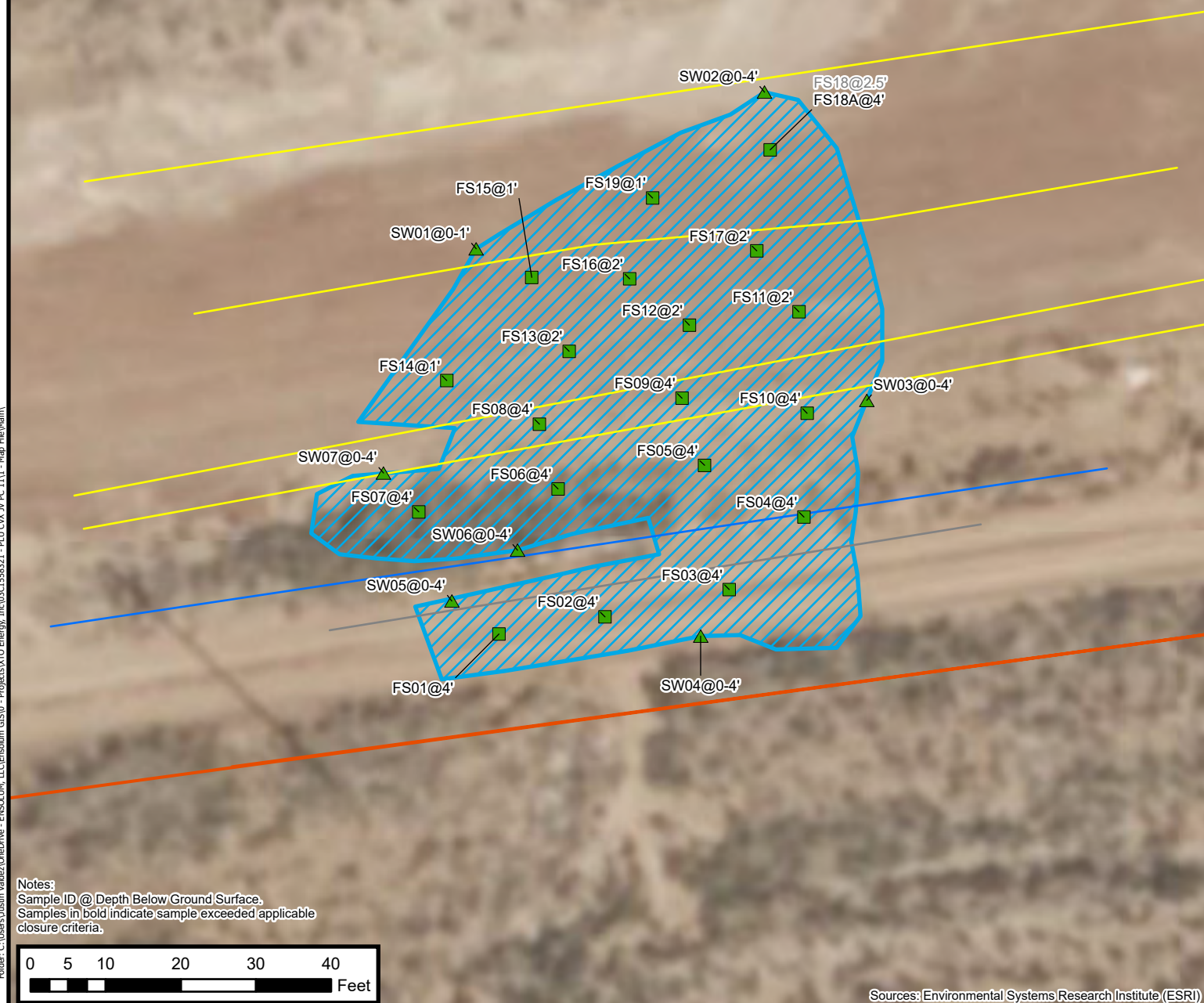




FIGURES

**Legend**

- Excavation Floor Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Water Utility Line
- <all other values>
- ▨ Excavation Extent



## Excavation Soil Sample Locations

XTO Energy, Inc  
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 Incident Number: nAPP2401641673  
 Unit F, Sec 20, T24S, R30E  
 Eddy County, NM

**FIGURE**

**1**



TABLES

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**PLU CVX JV PC 11**  
**XTO Energy, Inc**  
**Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SS01	03/05/2024	0.5	<0.050	<0.300	<10.0	36.4	<10.0	36.4	36.4	32.0
SS02	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS03	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS04	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS05	04/24/2024	0.5	<0.050	<0.300	<10.0	13.3	<10.0	13.3	13.3	64.0
SS06	04/24/2024	0.5	0.0078	0.549	<10.0	406	79.2	406	485	256
SS07	04/24/2024	0.5	<0.050	<0.300	<10.0	84.3	<10.0	84.3	84.3	1,140
SS08	04/24/2024	0.5	<0.050	0.988	<10.0	47.7	<10.0	47.7	47.7	224
SS09	09/26/2024	0.5	<0.050	<03.00	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
BH01-	04/24/2024	0.5	3.17	137	2,300	6,260	1,090	8,560	9,650	3,600
BH01A	04/24/2024	1	10.4	334	5,630	8,260	1,350	13,890	15,240	2,640
BH02	04/24/2024	0.5	9.69	412	5,090	9,820	1,600	14,910	16,510	160
BH02A	04/24/2024	1	7.73	298	4,310	6,920	1,050	11,230	12,280	80.0
BH03	04/24/2024	0.5	0.517	86.0	2,030	11,100	1,820	13,130	14,950	64.0
BH03A	04/24/2024	1	0.0066	13.8	258	2,120	382	2,378	2,760	64.0
BH03B	09/26/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
Confirmation Soil Samples										
FS01	11/19/2024	4	<0.050	<0.300	<10.0	55.2	<10.0	55.2	55.2	16
FS02	11/19/2024	4	<0.050	<0.300	<10.0	37.9	<10.0	37.9	37.9	208
FS03	11/19/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS04	11/19/2024	4	<0.050	<0.300	<10.0	54.5	<10.0	54.5	54.5	48
FS05	11/19/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
FS06	11/19/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS07	11/19/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
FS08	11/19/2024	4	<0.050	<0.300	<10.0	36.5	<10.0	36.5	36.5	288
FS09	11/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS10	11/19/2024	4	<0.050	<0.300	<10.0	80.8	<10.0	80.8	80.8	96
FS11	11/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
FS12	11/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS13	11/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
FS14	11/19/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**PLU CVX JV PC 11**  
**XTO Energy, Inc**  
**Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
FS15	11/20/2024	1	<0.050	<0.300	<10.0	10.6	<10.0	10.6	10.6	192
FS16	11/20/2024	2	<0.050	<0.300	<10.0	47.5	12.6	47.5	60.1	272
FS17	11/20/2024	4	<0.050	0.413	<10.0	84.5	<10.0	84.5	84.5	128
FS18	11/20/2024	2.5	<0.050	2.72	<10.0	817	160	817	977	272
FS18A	12/19/2024	4	<0.050	<0.300	<10.0	41.8	<10.0	41.8	41.8	144
FS19	11/20/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SW01	11/20/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.1	<10.0	544
SW02	11/20/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.2	<10.0	112
SW03	11/20/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.3	<10.0	80
SW04	11/20/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.4	<10.0	32
SW05	11/20/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.5	<10.0	80
SW06	11/20/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.6	<10.0	64
SW07	11/20/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.7	<10.0	64

## 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

October 8, 2024 *Remediation Work Plan*

and correspondence

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October 8, 2024

**New Mexico Oil Conservation Division**

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

**Re: Remediation Work Plan  
PLU CVX JV PC 11  
Incident Number NAPP2401641673  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan (Work Plan)* to document the assessment activities completed to date and propose remedial activities to address impacted soil identified at the PLU CVX JV PC 11 (Site). The purpose of the site assessment activities was to delineate the lateral and vertical extent of impacted soil resulting from a release of produced water, crude oil, and vented natural gas. The following *Work Plan* proposes to excavate impacted soil within the top 4 feet of the release extent.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit F, Section 20, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.205624°, -103.904817°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On January 8, 2024, corrosion in a flowline resulted in the release of 2 barrels (bbls) of produced water and 4 bbls of crude oil to the Right-of-Way (ROW) and surrounding pasture area. In addition, 320 thousand cubic feet (MCF) of natural gas were vented. A vacuum truck was dispatched to the Site and recovered 5 bbls of the released fluids. XTO reported the release to the NMOCD via notification of release (NOR) and submitted a Form C-141 Application (C-141) on January 16, 2024. The release was assigned Incident Number NAPP2401641673.

## **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well USGS 321205103544701, located approximately 0.59 miles southwest of the Site. The groundwater well has a reported depth to groundwater of 231 feet bgs and a total depth of 452 feet bgs. The most recent depth to groundwater data was collected on January 27, 1998, which slightly exceeds the NMOCD-preference for a depth to water measurement to have been collected within the last 25 years, and the well distance from the Site

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Remediation Work Plan  
PLU CVX JV PC 11

of 0.59 miles slightly exceeds the NMOCD-preference of utilizing a well within ½ mile of the Site. However, this water well has a historic record, which can be more useful than one data point measured upon installation. The well record for USGS 321205103544701 indicated that depth to groundwater did not fluctuate more than +/- 6.24 feet over a period of 40 years. The groundwater present in the well during those 40 years was deep (231 feet bgs), and the historical record of only minor fluctuation in groundwater elevation suggest it is highly unlikely that depth to water in this area would have risen to less than 100 feet in recent years. In addition, multiple NMOSE permitted wells within 1.25 miles of the Site indicate depth to groundwater exceeds 100 feet bgs. This includes New Mexico Office of the State Engineer (NMOSE) soil boring C-04676 located 0.71 miles northwest of the Site, drilled in November of 2022 and resulted in a dry hole; and NMOSE well C-3960 located 1.15 miles east of the Site, installed November of 2016 and includes a most recent depth to groundwater measurement of 250 feet bgs. All well records used to determine depth to groundwater are attached in Appendix A and the well locations are depicted on Figure 1.

The closest continuously flowing or significant watercourse to the Site is dry wash, located approximately 441 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

Based on the results of the Site Characterization and the depth to groundwater investigation mentioned above, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

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

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

## SITE ASSESSMENT AND DELINEATION ACTIVITIES

On March 5, 2024 Ensolum personnel conducted a Site visit to evaluate the release extent based on information provided in the C-141 and visual observations. Ensolum personnel collected four lateral delineation soil samples (SS01 through SS04) around the release extent from a depth of 0.5 feet bgs to assess the lateral extent of impacted soil. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix B.

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

Based on visual observations and field screening results, additional delineation within the release extent was warranted. As such, Ensolum personnel returned to the Site on April 24, 2024 and advanced boreholes BH01 through BH03 via hand auger within the release extent. The boreholes were advanced to a maximum depth of 1 foot bgs where auger refusal occurred. Discrete soil samples were collected from each pothole at depths ranging from 0.5 feet to 1-foot bgs. Soil from the boreholes were field screened for VOCs and chloride. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. In addition to the borings, Ensolum personnel collected supplementary surface delineation soil samples (SS05 through SS08) from a depth of 0.5 feet bgs within and around the release extent. The soil samples were handled and analyzed as described above and submitted to Cardinal in Hobbs, New Mexico. The soil sample locations are depicted on Figure 2.

In order to complete additional delineation or excavation activities with heavy equipment, additional BLM access was required. XTO submitted a sundry form to request access to the BLM land and BLM approved access with conditions on May 31, 2024, requesting botany and archeological resource surveys to be completed prior to any delineation or excavation with heavy equipment. XTO contracted Beaver Creek Archeology (BCA) to complete the botany and archeological resource surveys. Those reports were completed and submitted to the BLM in August 2024.

Ensolum personnel returned to the Site on September 26, 2024 to oversee delineation via core drill and complete vertical delineation of the release with non-destructive means. The core drill was utilized to the southeast of borehole BH03 due to proximity of subsurface pipelines and was advanced to a maximum depth of 3 feet bgs. A discrete soil sample was collected from the borehole at 3 feet bgs. Soil from the borehole was field screened, and results and observations were logged on a lithologic/soil sampling log (Appendix C). Ensolum personnel collected an additional surface delineation soil sample (SS09) at 0.5 feet bgs to complete lateral delineation. All soil samples were handled and analyzed as described above and submitted to Cardinal in Hobbs, New Mexico.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples SS01 through SS05, SS08 and SS09 indicate all COC concentrations are compliant with the Closure Criteria and reclamation requirement. Laboratory analytical results for delineation soil samples SS06 and SS07 indicate TPH and/or chloride concentrations exceed the reclamation requirement. Laboratory analytical results for delineation soil samples collected from 0.5 feet and 1-foot bgs within the release extent (borehole samples) indicated that benzene, BTEX, TPH-GRO/TPH-DRO, and TPH exceeds the Closure Criteria. Chloride from samples in BH01 also exceeded the reclamation requirement. Laboratory analytical results for BH03B, collected at 3 feet bgs, indicated concentrations of all COCs were compliant with the Closure Criteria and reclamation requirement and successfully defined the vertical extent of the release. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

XTO Energy, Inc.  
Remediation Work Plan  
PLU CVX JV PC 11

## PROPOSED REMEDIATION WORK PLAN

The laboratory analytical results indicate impacted and waste-containing soil exists across an approximate 1,950 square foot area and is less than 3 feet deep. As such, XTO proposes to complete the following remediation activities:

- Excavation of impacted and waste-containing soil to a depth of approximately 3 feet bgs. Excavation will proceed laterally until sidewall samples confirm all COC concentrations are compliant with the reclamation requirement in the top four feet.
- Collect 5-point composite confirmation soil samples every 200 square feet from the floor and sidewalls of the final excavation extent. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. All confirmation soil samples will be analyzed for the same COCs as described above.
- An estimated 220 cubic yards of impacted soil will be excavated. The excavated soil will be transferred to an approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions and re-seeded with the recommended BLM seed mixture.

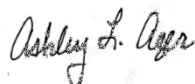
BLM approved the sundry request for additional remediation activities at the Site on October 2, 2024. As such, XTO will begin the excavation and soil sampling activities within 30 days of the date this *Work Plan* is submitted to the NMOCD.

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

Sincerely,  
**Ensolum, LLC**



David A. McInnis  
Project Geologist



Ashley Ager, MS, PG  
Principal, Geologist

cc: Colton Brown, XTO  
Kaylan Dirkx, XTO  
BLM

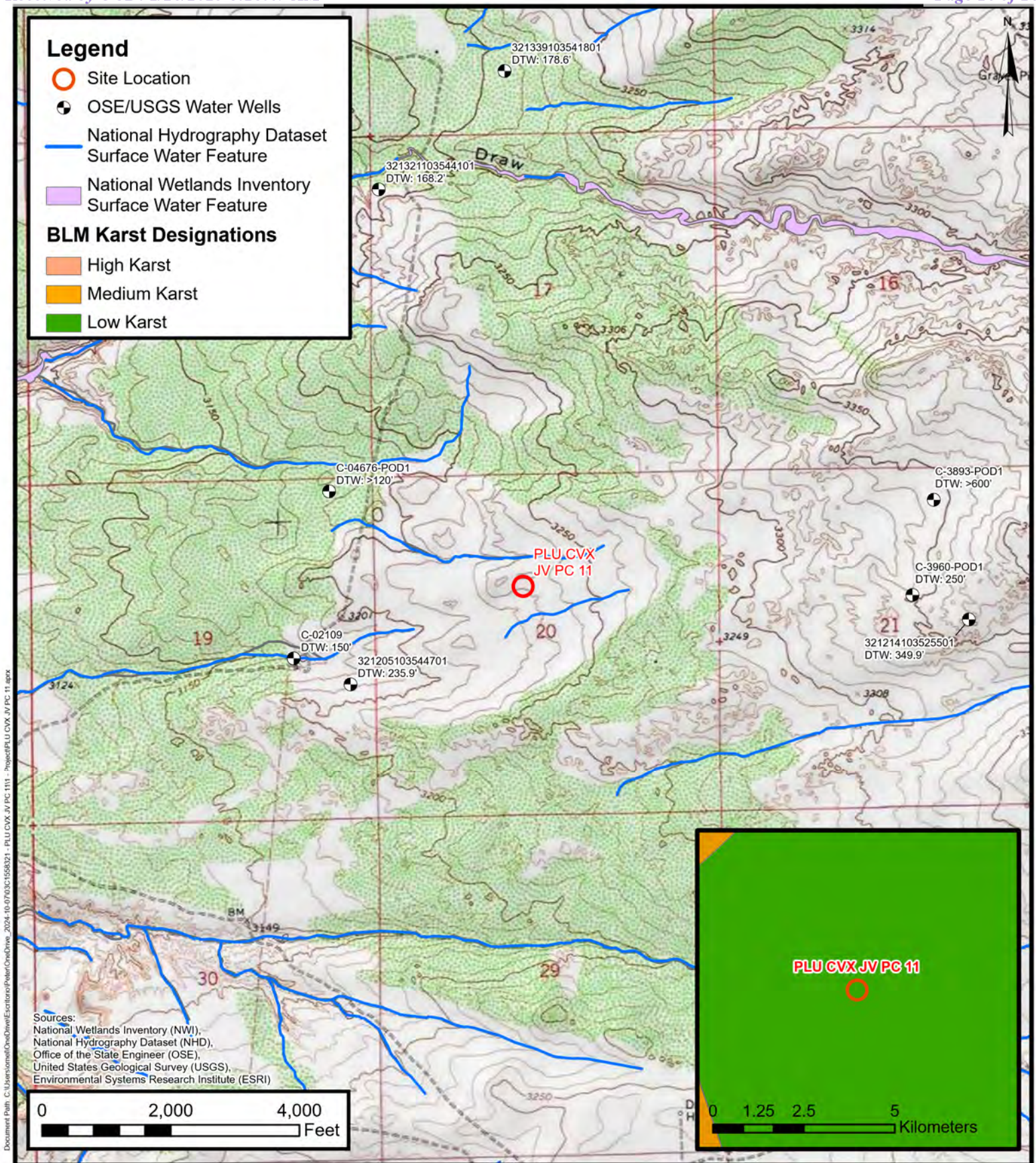
### Appendices:

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



FIGURES





## Site Receptor Map

XTO Energy, Inc  
PLU CVX JV PC 11

Incident Number: nAPP2401641673

Unit F, Sec 20, T 24S, R 30E  
Eddy County, New Mexico

FIGURE

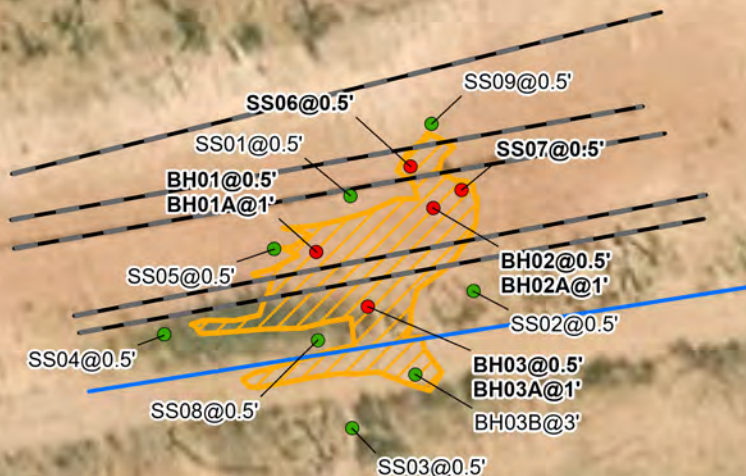
1

**ENSOLUM**  
Environmental, Engineering and  
Hydrogeologic Consultants



# Legend

- Delineation Soil Sample  
Compliant with Closure  
Criteria
- Delineation Soil Sample  
Not Compliant with  
Closure Criteria
- Oil and Gas Utility Line
- Water Utility Line
- ▨ Release Extent



Notes:  
Soil Sample @ Depth Below Ground Surface  
Concentrations in **bold** exceed the NMOCD Table I Closure Criteria  
or reclamation requirement where applicable.

0 50 100  
Feet

Sources:  
Environmental Systems Research Institute (ESRI)



## Delineation Soil Sample Locations

XTO Energy, Inc  
PLU CVX JV PC 11  
Incident Number: nAPP2401641673  
Unit F, Sec 20, T 24S, R 30E  
Eddy County, New Mexico

FIGURE  
2



TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**PLU CVX JV PC 11**  
**XTO Energy, Inc**  
**Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	03/05/2024	0.5	<0.050	<0.300	<10.0	36.4	<10.0	36.4	36.4	32.0
SS02	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS03	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS04	03/05/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS05	04/24/2024	0.5	<0.050	<0.300	<10.0	13.3	<10.0	13.3	13.3	64.0
SS06	04/24/2024	0.5	0.0078	0.549	<10.0	406	79.2	<b>406</b>	<b>485</b>	256
SS07	04/24/2024	0.5	<0.050	<0.300	<10.0	84.3	<10.0	84.3	84.3	<b>1,140</b>
SS08	04/24/2024	0.5	<0.050	0.988	<10.0	47.7	<10.0	47.7	47.7	224
SS09	09/26/2024	0.5	<0.050	<03.00	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
BH01	04/24/2024	0.5	3.17	<b>137</b>	2,300	6,260	1,090	<b>8,560</b>	<b>9,650</b>	3,600
BH01A	04/24/2024	1	<b>10.4</b>	<b>334</b>	5,630	8,260	1,350	<b>13,890</b>	<b>15,240</b>	2,640
BH02	04/24/2024	0.5	9.69	<b>412</b>	5,090	9,820	1,600	<b>14,910</b>	<b>16,510</b>	160
BH02A	04/24/2024	1	7.73	<b>298</b>	4,310	6,920	1,050	<b>11,230</b>	<b>12,280</b>	80.0
BH03	04/24/2024	0.5	0.517	<b>86.0</b>	2,030	11,100	1,820	<b>13,130</b>	<b>14,950</b>	64.0
BH03A	04/24/2024	1	0.0066	13.8	258	2,120	382	<b>2,378</b>	<b>2,760</b>	64.0
BH03B	09/26/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code



## APPENDIX A

### Referenced Well Records

---



USGS Home  
Contact USGS  
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
United States

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 the Nation

Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 321205103544701

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321205103544701 24S.30E.19.42113

Eddy County, New Mexico  
Latitude 32°12'05", Longitude 103°54'47" NAD27  
Land-surface elevation 3,188 feet above NAVD88  
The depth of the well is 452 feet below land surface.  
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.  
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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 (measured)
1958-10-24			D 62610		2958.66	NGVD29	1		Z	
1958-10-24			D 62611		2960.30	NAVD88	1		Z	
1958-10-24			D 72019	227.70			1		Z	
1959-03-19			D 62610		2958.61	NGVD29	1		Z	
1959-03-19			D 62611		2960.25	NAVD88	1		Z	
1959-03-19			D 72019	227.75			1		Z	
1975-12-10			D 62610		2954.58	NGVD29	1		Z	
1975-12-10			D 62611		2956.22	NAVD88	1		Z	
1975-12-10			D 72019	231.78			1		Z	
1976-01-16			D 62610		2949.10	NGVD29	1		Z	
1976-01-16			D 62611		2950.74	NAVD88	1		Z	
1976-01-16			D 72019	237.26			1		Z	
1976-12-01			D 62610		2955.63	NGVD29	1		Z	
1976-12-01			D 62611		2957.27	NAVD88	1		Z	
1976-12-01			D 72019	230.73			1		Z	
1977-01-14			D 62610		2955.74	NGVD29	1		Z	

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement
1977-01-14			D	62611	2957.38	NAVD88	1		Z	
1977-01-14			D	72019	230.62		1		Z	
1983-02-01			D	62610	2950.43	NGVD29	1		Z	
1983-02-01			D	62611	2952.07	NAVD88	1		Z	
1983-02-01			D	72019	235.93		1		Z	
1987-10-15			D	62610	2953.06	NGVD29	1		S	
1987-10-15			D	62611	2954.70	NAVD88	1		S	
1987-10-15			D	72019	233.30		1		S	
1998-01-27			D	62610	2955.34	NGVD29	1		S	
1998-01-27			D	62611	2956.98	NAVD88	1		S	
1998-01-27			D	72019	231.02		1		S	

Explanation

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

Questions or Comments

Automated retrievals

Help

Data Tips

Explanation of terms

Subscribe for system changes

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

Title: Groundwater for USA: Water Levels

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



Page Contact Information: USGS Water Data Support Team

Page Last Modified: 2024-02-26 15:17:40 EST

0.28 0.25 nadww02





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

OSE 011 DEC 21 2022 PM 3:14

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-04676 POD 1		WELL TAG ID NO.		OSE FILE NO(S). C-04676			
	WELL OWNER NAME(S) XTO ENERGY INC				PHONE (OPTIONAL) 575-200-0729			
	WELL OWNER MAILING ADDRESS 3104 E GREENE ST				CITY STATE ZIP CARLSBAD NM 88220			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 12	SECONDS 32.66 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	54	50.95 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE POKER LAKE UNIT # 231								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1184		NAME OF LICENSED DRILLER RUSSELL SOUTHERLAND			NAME OF WELL DRILLING COMPANY WEST TEXAS WATER WELL SERVICE		
	DRILLING STARTED 11/22/22		DRILLING ENDED 11/22/22		DEPTH OF COMPLETED WELL (FT) 120		BORE HOLE DEPTH (FT)	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)						DEPTH WATER FIRST ENCOUNTERED (FT)	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
				NO CASING IN HOLE				
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				N/A				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. C-04676	POD NO. 1	TRN NO. 736286
LOCATION 245.30E.19.1.2.2	WELL TAG ID NO.	PAGE 1 OF 2

#### 1. HYDROGEOLOGIC LOG OF WELL

FOR OSE INTERNAL USE





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER)				OSE FILE NUMBER(S)				
	1				C-3960				
	WELL OWNER NAME(S)				PHONE (OPTIONAL)				
	BUREAU OF LAND MANAGEMENT								
	WELL OWNER MAILING ADDRESS				CITY STATE ZIP				
620 E. GREENE STREET				CARLSBAD NM 88220					
WELL LOCATION (FROM GPS)	DEGREES		MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84				
	LATITUDE		32	12					519 31.14 N
	LONGITUDE		103	53					511 30.26 W
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE									
SECTION 21 TOWNSHIP 24 S. RANGE 30 S.									
2. DRILLING & CASING INFORMATION	LICENSE NUMBER		NAME OF LICENSED DRILLER			NAME OF WELL DRILLING COMPANY			
	WD-1753		JACOBO FRIESEN			VANGUARD WATER WELLS			
	DRILLING STARTED		DRILLING ENDED		DEPTH OF COMPLETED WELL (FT)		BORE HOLE DEPTH (FT)		
	11-12-16		11-12-16		475		475		
					DEPTH WATER FIRST ENCOUNTERED (FT)		250		
	COMPLETED WELL IS:		<input type="checkbox"/> ARTESIAN		<input type="checkbox"/> DRY HOLE		<input checked="" type="checkbox"/> SHALLOW (UNCONFINED)		
	DRILLING FLUID:		<input type="checkbox"/> AIR		<input checked="" type="checkbox"/> MUD		ADDITIVES - SPECIFY:		
	DRILLING METHOD:		<input checked="" type="checkbox"/> ROTARY		<input type="checkbox"/> HAMMER		<input type="checkbox"/> CABLE TOOL		
							OTHER - SPECIFY:		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)	
	FROM	TO							
	0	250	11	STEEL BLANK	THREAD	6	.322		
	250	290	11	STEEL SCREEN	THREAD	6	.25	.030	
	290	395	11	STEEL BLANK	THREAD	6	.322		
	395	435	11	STEEL SCREEN	THREAD	6	.25	.030	
435	475	11	STEEL BLANK	THREAD	6	.322			
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT			
	FROM	TO							
	0	20	11	CONCRETE	9	POURED			
	20	220	11	3/8 GRAVEL	93	POURED			
	220	310	11	SILCA SAND	41	POURED			
	310	370	11	3/8 GRAVEL	28	POURED			
	370	475	11	SILCA SAND	48	POURED			

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 10/29/15)

FILE NUMBER	C-3960	POD NUMBER	1	TRN NUMBER	588952
LOCATION	24.30.21.23				PAGE 1 OF 2

STATE OF NEW MEXICO  
ROSWELL, NEW MEXICO  
2016 NOV 17 PM 3:53

PAGE 2 OF 2



## APPENDIX B

### Photographic Log

---



**Photographic Log**

XTO Energy, Inc  
 PLU CVX JV PC 11  
 NAPP2401641673



Photograph: 1 Date: 1/9/2024  
 Description: Soil staining in release footprint  
 View: East



Photograph: 2 Date: 3/5/2024  
 Description: Soil staining in release footprint  
 View: Southwest



Photograph: 3 Date: 4/24/2024  
 Description: Soil staining in release footprint  
 View: Southeast




Photograph: 4 Date: 9/26/2024  
 Description: Core drilling activities  
 View: Northeast








## APPENDIX C

### Lithologic & Soil Sampling Logs

 <b>ENSOLUM</b>		Sample Name: BH01		Date: 04/25/2024				
		Site Name: PLU CVX JV PC 11						
		Incident Number: nAPP2401641673						
		Job Number: 03C1558321						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.205600, -103.904840			Logged By: TH		Method: Hand Auger			
			Hole Diameter: 4"		Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	>3612	949.7	N	BH01	0.5	0	SP-SM	(0-1') SAND, brown, with silt and gravel, poorly graded, odor present
Dry	1674	1503	N	BH01A	1	1		Auger Refusal @ 1-foot bgs
						Total Depth @ 1-foot bgs		

 <b>ENSOLUM</b>		Sample Name: BH02		Date: 04/25/2024				
		Site Name: PLU CVX JV PC 11						
		Incident Number: nAPP2401641673						
		Job Number: 03C1558321						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.205630, -103.904742			Logged By: TH		Method: Hand Auger			
			Hole Diameter: 4"		Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Drv	<162	1147	N	BH02	0.5	0	SP-SM	(0-1') SAND, brown, with silt and gravel, poorly graded, trace caliche, odor present
Drv	<162	1189	N	BH02A	1	1		
						Auger Refusal @ 1-foot bgs		
						Total Depth @ 1-foot bgs		

 <b>ENSOLUM</b>		Sample Name: BH03		Date: 04/25/2024				
		Site Name: PLU CVX JV PC 11						
		Incident Number: nAPP2401641673						
		Job Number: 03C1558321						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.205560, -103.904797			Logged By: TH		Method: Hand Auger			
			Hole Diameter: 4"		Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Drv	<162	406.1	N	BH03	0.5	0	SP-SM	(0-1') SAND, brown, with silt and gravel, poorly graded, trace caliche, odor present
Drv	<162	336.3	N	BH03A	1	1		
						Auger Refusal @ 1-foot bgs		
						Total Depth @ 1-foot bgs		

 <b>ENSOLUM</b>		Sample Name: BH03		Date: 9/26/24				
		Site Name: PLU CVX JV PC 11						
		Incident Number: nAPP2401641673						
		Job Number: 03C1558321						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.205511, -103.904723			Logged By: DM		Method: Hand Auger			
			Hole Diameter: 2"		Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SP-SM	(0-1') SAND, brown, with silt and gravel, poorly graded, odor present
					1	1		
Damp	<120	56.7	N		2	2	CCHE	(1-2') CALICHE, light brown, with sand, slight odor present
Damp	<120	0.1	N	BH03B	3	3	CCHE	(2-3') CALICHE, light brown, with sand, no odor present
						Total Depth @ 3-foot bgs		





## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

---



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

---

March 12, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU CVX JV PC 11

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/07/2024  
Reported: 03/12/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 03/05/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 01 @ 0.5' (H241162-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.21	110	2.00	0.741	
Toluene*	<0.050	0.050	03/09/2024	ND	2.20	110	2.00	0.696	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.15	107	2.00	0.941	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.46	108	6.00	0.459	
Total BTX	<0.300	0.300	03/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/11/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	213	106	200	3.16	
DRO >C10-C28*	36.4	10.0	03/08/2024	ND	226	113	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/07/2024  
Reported: 03/12/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 03/05/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 02 @ 0.5' (H241162-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.21	110	2.00	0.741	
Toluene*	<0.050	0.050	03/09/2024	ND	2.20	110	2.00	0.696	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.15	107	2.00	0.941	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.46	108	6.00	0.459	
Total BTEX	<0.300	0.300	03/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/11/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	213	106	200	3.16	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	226	113	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/07/2024  
Reported: 03/12/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 03/05/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 03 @ 0.5' (H241162-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2024	ND	2.21	110	2.00	0.741	
Toluene*	<0.050	0.050	03/09/2024	ND	2.20	110	2.00	0.696	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.15	107	2.00	0.941	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.46	108	6.00	0.459	
Total BTEX	<0.300	0.300	03/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	213	106	200	3.16	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	226	113	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 03/07/2024  
Reported: 03/12/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 03/05/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 04 @ 0.5' (H241162-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/09/2024	ND	2.21	110	2.00	0.741		
Toluene*	<0.050	0.050	03/09/2024	ND	2.20	110	2.00	0.696		
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.15	107	2.00	0.941		
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.46	108	6.00	0.459		
Total BTEX	<0.300	0.300	03/09/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/11/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	213	106	200	3.16	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	226	113	200	0.570	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> ENSOLUM, LLC <b>Project Manager:</b> Tracy Hillard <b>Address:</b> 3122 National Parks Hwy <b>City:</b> CARLSBAD <b>State:</b> NM <b>Zip:</b> 88220 <b>Phone #:</b> 575-937-3906 <b>Fax #:</b> <b>Project #:</b> 0351558321 <b>Project Owner:</b> <b>Project Name:</b> PLU CVX JV PC 21 <b>Project Location:</b> 32.205424, -103.904817 <b>Sampler Name:</b> Mariana O'Dell		<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> XTO Energy <b>Attn:</b> Amy Ruth <b>Address:</b> 3184 E. Greenst <b>City:</b> CARLSBAD, NM <b>State:</b> NM <b>Zip:</b> 88220 <b>Phone #:</b> <b>Fax #:</b>		<b>ANALYSIS REQUEST</b>	
<b>FOR LAB USE ONLY</b> <b>Lab I.D.</b> 141162 <b>Sample I.D.</b>		<b>MATRIX</b> (G) RAB OR (C) COMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		<b>PRESERV</b> <b>SAMPLING</b>	
Date: 3/10/24 Time: 11:25 Received By: [Signature]		DATE TIME 3/5/24 9:45 10:10 9:55 9:50		Chlorides BTEX TPH	
Relinquished By: [Signature] Date: 3/10/24 Time: 11:25 Received By: [Signature]		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: thillard@ensolum.com, model@ensolum.com		REMARKS: Incident #: NAPP2401041073	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °C		Sample Condition Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked By: [Signature] (Initials)	
Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID: #113 Correction Factor: #110		Bacteria (only) Sample Condition Cool Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID: #113 Correction Factor: #110	

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



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

May 02, 2024

DAVID MCINNIS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU CVS JV PC 11

Enclosed are the results of analyses for samples received by the laboratory on 04/26/24 13:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 DAVID MCINNIS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: PLU CVS JV PC 11  
 Project Number: 03C1558321  
 Project Location: XTO 32.205624,-103.904817

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BH 01 0.5 (H242246-01)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>3.17</b>	2.00	04/30/2024	ND	2.05	103	2.00	0.0123	GC-NC1
<b>Toluene*</b>	<b>26.4</b>	2.00	04/30/2024	ND	2.10	105	2.00	1.56	
<b>Ethylbenzene*</b>	<b>17.9</b>	2.00	04/30/2024	ND	2.12	106	2.00	1.12	
<b>Total Xylenes*</b>	<b>89.3</b>	6.00	04/30/2024	ND	6.20	103	6.00	1.20	
<b>Total BTEx</b>	<b>137</b>	12.0	04/30/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3600</b>	16.0	04/30/2024	ND	448	112	400	0.00	QM-07

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>2300</b>	10.0	04/30/2024	ND	208	104	200	1.58		
<b>DRO &gt;C10-C28*</b>	<b>6260</b>	10.0	04/30/2024	ND	189	94.6	200	6.21		
<b>EXT DRO &gt;C28-C36</b>	<b>1090</b>	10.0	04/30/2024	ND						

Surrogate: 1-Chlorooctane 170 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 DAVID MCINNIS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: PLU CVS JV PC 11  
 Project Number: 03C1558321  
 Project Location: XTO 32.205624,-103.904817

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BH 01 A 1 (H242246-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>10.4</b>	2.00	04/30/2024	ND	2.05	103	2.00	0.0123	GC-NC1
<b>Toluene*</b>	<b>96.2</b>	2.00	04/30/2024	ND	2.10	105	2.00	1.56	
<b>Ethylbenzene*</b>	<b>45.0</b>	2.00	04/30/2024	ND	2.12	106	2.00	1.12	
<b>Total Xylenes*</b>	<b>183</b>	6.00	04/30/2024	ND	6.20	103	6.00	1.20	
<b>Total BTEX</b>	<b>334</b>	12.0	04/30/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2640</b>	16.0	04/30/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>5630</b>	10.0	04/30/2024	ND	208	104	200	1.58		
<b>DRO &gt;C10-C28*</b>	<b>8260</b>	10.0	04/30/2024	ND	189	94.6	200	6.21		
<b>EXT DRO &gt;C28-C36</b>	<b>1350</b>	10.0	04/30/2024	ND						

Surrogate: 1-Chlorooctane 221 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 DAVID MCINNIS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: PLU CVS JV PC 11  
 Project Number: 03C1558321  
 Project Location: XTO 32.205624,-103.904817

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BH 02 0.5 (H242246-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>9.69</b>	2.00	04/30/2024	ND	2.05	103	2.00	0.0123	GC-NC1
<b>Toluene*</b>	<b>102</b>	2.00	04/30/2024	ND	2.10	105	2.00	1.56	
<b>Ethylbenzene*</b>	<b>57.1</b>	2.00	04/30/2024	ND	2.12	106	2.00	1.12	
<b>Total Xylenes*</b>	<b>243</b>	6.00	04/30/2024	ND	6.20	103	6.00	1.20	
<b>Total BTEX</b>	<b>412</b>	12.0	04/30/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	04/30/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>5090</b>	10.0	04/30/2024	ND	208	104	200	1.58		
<b>DRO &gt;C10-C28*</b>	<b>9820</b>	10.0	04/30/2024	ND	189	94.6	200	6.21		
<b>EXT DRO &gt;C28-C36</b>	<b>1600</b>	10.0	04/30/2024	ND						

Surrogate: 1-Chlorooctane 165 % 48.2-134

Surrogate: 1-Chlorooctadecane 154 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
DAVID MCINNIS  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received: 04/26/2024  
Reported: 05/02/2024  
Project Name: PLU CVS JV PC 11  
Project Number: 03C1558321  
Project Location: XTO 32.205624,-103.904817

Sampling Date: 04/24/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: BH 02 A 1 (H242246-04)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>7.73</b>	2.00	04/30/2024	ND	2.05	103	2.00	0.0123	GC-NC1
<b>Toluene*</b>	<b>71.1</b>	2.00	04/30/2024	ND	2.10	105	2.00	1.56	
<b>Ethylbenzene*</b>	<b>40.2</b>	2.00	04/30/2024	ND	2.12	106	2.00	1.12	
<b>Total Xylenes*</b>	<b>179</b>	6.00	04/30/2024	ND	6.20	103	6.00	1.20	
<b>Total BTEX</b>	<b>298</b>	12.0	04/30/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	04/30/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>4310</b>	10.0	04/30/2024	ND	225	113	200	2.25	QM-07	
<b>DRO &gt;C10-C28*</b>	<b>6920</b>	10.0	04/30/2024	ND	227	114	200	2.83	QM-07	
<b>EXT DRO &gt;C28-C36</b>	<b>1050</b>	10.0	04/30/2024	ND						

Surrogate: 1-Chlorooctane 160 % 48.2-134

Surrogate: 1-Chlorooctadecane 149 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
DAVID MCINNIS  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received: 04/26/2024  
Reported: 05/02/2024  
Project Name: PLU CVS JV PC 11  
Project Number: 03C1558321  
Project Location: XTO 32.205624,-103.904817

Sampling Date: 04/24/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: BH 03 0.5 (H242246-05)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.517</b>	0.200	05/01/2024	ND	2.05	103	2.00	0.0123	GC-NC1
<b>Toluene*</b>	<b>7.99</b>	0.200	05/01/2024	ND	2.10	105	2.00	1.56	
<b>Ethylbenzene*</b>	<b>9.50</b>	0.200	05/01/2024	ND	2.12	106	2.00	1.12	
<b>Total Xylenes*</b>	<b>68.0</b>	0.600	05/01/2024	ND	6.20	103	6.00	1.20	
<b>Total BTEX</b>	<b>86.0</b>	1.20	05/01/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 211 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	04/30/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>2030</b>	50.0	04/30/2024	ND	225	113	200	2.25	
<b>DRO &gt;C10-C28*</b>	<b>11100</b>	50.0	04/30/2024	ND	227	114	200	2.83	
<b>EXT DRO &gt;C28-C36</b>	<b>1820</b>	50.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 173 % 48.2-134

Surrogate: 1-Chlorooctadecane 201 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 DAVID MCINNIS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: PLU CVS JV PC 11  
 Project Number: 03C1558321  
 Project Location: XTO 32.205624,-103.904817

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BH 03 A 1 (H242246-06)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.066</b>	0.050	04/30/2024	ND	2.05	103	2.00	0.0123	GC-NC1
<b>Toluene*</b>	<b>0.849</b>	0.050	04/30/2024	ND	2.10	105	2.00	1.56	
<b>Ethylbenzene*</b>	<b>4.11</b>	0.050	04/30/2024	ND	2.12	106	2.00	1.12	
<b>Total Xylenes*</b>	<b>8.76</b>	0.150	04/30/2024	ND	6.20	103	6.00	1.20	
<b>Total BTEX</b>	<b>13.8</b>	0.300	04/30/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 176 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	04/30/2024	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
<b>GRO C6-C10*</b>	<b>258</b>	10.0	04/30/2024	ND	225	113	200	2.25	
<b>DRO &gt;C10-C28*</b>	<b>2120</b>	10.0	04/30/2024	ND	227	114	200	2.83	
<b>EXT DRO &gt;C28-C36</b>	<b>382</b>	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 DAVID MCINNIS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: PLU CVS JV PC 11  
 Project Number: 03C1558321  
 Project Location: XTO 32.205624,-103.904817

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 06 0.5 (H242246-07)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.078</b>	0.050	04/30/2024	ND	2.05	103	2.00	0.0123	GC-NC1
<b>Toluene*</b>	<b>0.261</b>	0.050	04/30/2024	ND	2.10	105	2.00	1.56	
<b>Ethylbenzene*</b>	<b>0.050</b>	0.050	04/30/2024	ND	2.12	106	2.00	1.12	
<b>Total Xylenes*</b>	<b>0.160</b>	0.150	04/30/2024	ND	6.20	103	6.00	1.20	
<b>Total BTEX</b>	<b>0.549</b>	0.300	04/30/2024	ND					GC-NC1

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>256</b>	16.0	04/30/2024	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	04/30/2024	ND	225	113	200	2.25	
<b>DRO &gt;C10-C28*</b>	<b>406</b>	10.0	04/30/2024	ND	227	114	200	2.83	
<b>EXT DRO &gt;C28-C36</b>	<b>79.2</b>	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
DAVID MCINNIS  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received: 04/26/2024  
Reported: 05/02/2024  
Project Name: PLU CVS JV PC 11  
Project Number: 03C1558321  
Project Location: XTO 32.205624,-103.904817

Sampling Date: 04/24/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 07 0.5 (H242246-08)**

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	04/30/2024	ND	2.05	103	2.00	0.0123		
Toluene*	<0.050	0.050	04/30/2024	ND	2.10	105	2.00	1.56		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.12	106	2.00	1.12		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.20	103	6.00	1.20		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1140	16.0	04/30/2024	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	04/30/2024	ND	225	113	200	2.25	
DRO >C10-C28*	84.3	10.0	04/30/2024	ND	227	114	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 DAVID MCINNIS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: PLU CVS JV PC 11  
 Project Number: 03C1558321  
 Project Location: XTO 32.205624,-103.904817

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 08 0.5 (H242246-09)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	0.0123	
Toluene*	0.353	0.050	04/30/2024	ND	2.10	105	2.00	1.56	
Ethylbenzene*	0.124	0.050	04/30/2024	ND	2.12	106	2.00	1.12	
Total Xylenes*	0.512	0.150	04/30/2024	ND	6.20	103	6.00	1.20	
Total BTEX	0.988	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	04/30/2024	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	04/30/2024	ND	225	113	200	2.25	
DRO >C10-C28*	47.7	10.0	04/30/2024	ND	227	114	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 DAVID MCINNIS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: PLU CVS JV PC 11  
 Project Number: 03C1558321  
 Project Location: XTO 32.205624,-103.904817

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 05 0.5 (H242246-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	0.0123	
Toluene*	0.050	0.050	04/30/2024	ND	2.10	105	2.00	1.56	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.12	106	2.00	1.12	
Total Xylenes*	0.175	0.150	04/30/2024	ND	6.20	103	6.00	1.20	
Total BTEX	<0.300	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/30/2024	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	04/30/2024	ND	225	113	200	2.25	
<b>DRO &gt;C10-C28*</b>	<b>13.3</b>	10.0	04/30/2024	ND	227	114	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

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

Celey D. Keene, Lab Director/Quality Manager





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		<b>BILL TO</b>		ANALYSIS REQUEST	
Project Manager: David Meinnis		P.O. #:			
Address: 601 N. Mainfield St. STE 400		Company: XTO Energy			
City: Midland		Attn: Amy Ruth			
State: TX Zip: 79701		Address: 3104 E. Greene			
Phone #: 409-454-3009		City: Carlsbad			
Fax #: Project Owner: XTO		State: NM Zip: 88220			
Project #: 03C1558321		Phone #: 432-641-0571			
Project Name: PLU CVS JV PC II		Fax #:			
Project Location: 32.205624, -103.904817					
Sampler Name: Tracy Hillard					

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	Chloride
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
1	BH01	0.5	G	1												
2	BH01A	1														
3	BH02	0.5														
4	BH02A	1														
5	BH03	0.5														
6	BH03A	1														
7	SS06	0.5														
8	SS07	0.5														
9	SS08	0.5														
10	SS05	0.5														

Relinquished By: <i>[Signature]</i>		Date: 4/26/24	Received By: <i>[Signature]</i>	Date: 4/26/24
Relinquished By: <i>[Signature]</i>		Date: 4/26/24	Received By: <i>[Signature]</i>	Date: 4/26/24
Delivered By: (Circle One)		Observed Temp. °C: 3.7	Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <i>[Signature]</i>
Sampler - UPS - Bus - Other:		Corrected Temp. °C:		

Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:
All Results are emailed. Please provide Email address: <i>meinnis@ensolum.com</i>		
REMARKS: <i>napp3401641673</i>		
Cost center: <i>1139821001</i>		
Turnaround Time: <i>Standard</i> <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		
Thermometer ID: <i>#113</i> <input type="checkbox"/> <i>#1140</i> <input type="checkbox"/>		
Correction Factor: <i>0.0</i> <input type="checkbox"/> <i>0.0</i> <input type="checkbox"/>		
Bacteria (only) Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		
Observed Temp. °C: <input type="checkbox"/> Corrected Temp. °C: <input type="checkbox"/>		

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

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

---

October 04, 2024

DAVID MCINNIS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU CVX JV PC 11

Enclosed are the results of analyses for samples received by the laboratory on 09/26/24 16:11.

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

[www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited 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. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705Project: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Manager: DAVID MCINNIS  
Fax To:Reported:  
04-Oct-24 09:16

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH 03 B 3'	H245871-01	Soil	26-Sep-24 13:24	26-Sep-24 16:11
SS 09 0.5'	H245871-02	Soil	26-Sep-24 13:26	26-Sep-24 16:11

10/04/24 - Client changed the sample ID on -01 (see COC). This is the revised report and will replace the one sent on 09/27/24.

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Manager: DAVID MCINNIS  
Fax To:

Reported:  
04-Oct-24 09:16

**BH 03 B 3'**  
**H245871-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4092735	AC	27-Sep-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4092634	JH	26-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4092634	JH	26-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4092634	JH	26-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4092634	JH	26-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4092634	JH	26-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134 4092634 JH 26-Sep-24 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4092640	MS	27-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4092640	MS	27-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4092640	MS	27-Sep-24	8015B	

Surrogate: 1-Chlorooctane 85.1 % 48.2-134 4092640 MS 27-Sep-24 8015B

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148 4092640 MS 27-Sep-24 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Manager: DAVID MCINNIS  
Fax To:

Reported:  
04-Oct-24 09:16

**SS 09 0.5'**  
**H245871-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	4092735	AC	27-Sep-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4092634	JH	26-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4092634	JH	26-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4092634	JH	26-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4092634	JH	26-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4092634	JH	26-Sep-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	71.5-134		4092634	JH	26-Sep-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4092640	MS	27-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4092640	MS	27-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4092640	MS	27-Sep-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			75.8 %	48.2-134		4092640	MS	27-Sep-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			70.6 %	49.1-148		4092640	MS	27-Sep-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Manager: DAVID MCINNIS  
Fax To:

Reported:  
04-Oct-24 09:16

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4092735 - 1:4 DI Water</b>									
<b>Blank (4092735-BLK1)</b>					Prepared & Analyzed: 27-Sep-24				
Chloride	ND	16.0	mg/kg						
<b>LCS (4092735-BS1)</b>					Prepared & Analyzed: 27-Sep-24				
Chloride	432	16.0	mg/kg	400		108 80-120			
<b>LCS Dup (4092735-BSD1)</b>					Prepared & Analyzed: 27-Sep-24				
Chloride	432	16.0	mg/kg	400		108 80-120	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Manager: DAVID MCINNIS  
Fax To:

Reported:  
04-Oct-24 09:16

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4092634 - Volatiles****Blank (4092634-BLK1)**

Prepared &amp; Analyzed: 26-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)	0.0515		mg/kg	0.0500		103	71.5-134			

**LCS (4092634-BS1)**

Prepared &amp; Analyzed: 26-Sep-24

Benzene	1.92	0.050	mg/kg	2.00		96.0	82.8-130			
Toluene	2.03	0.050	mg/kg	2.00		101	86-128			
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	85.9-128			
m,p-Xylene	4.39	0.100	mg/kg	4.00		110	89-129			
o-Xylene	2.04	0.050	mg/kg	2.00		102	86.1-125			
Total Xylenes	6.43	0.150	mg/kg	6.00		107	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	71.5-134			

**LCS Dup (4092634-BSD1)**

Prepared &amp; Analyzed: 26-Sep-24

Benzene	1.86	0.050	mg/kg	2.00		93.1	82.8-130	3.04	15.8	
Toluene	1.98	0.050	mg/kg	2.00		98.8	86-128	2.64	15.9	
Ethylbenzene	2.03	0.050	mg/kg	2.00		102	85.9-128	2.30	16	
m,p-Xylene	4.31	0.100	mg/kg	4.00		108	89-129	1.79	16.2	
o-Xylene	2.01	0.050	mg/kg	2.00		100	86.1-125	1.70	16.7	
Total Xylenes	6.32	0.150	mg/kg	6.00		105	88.2-128	1.76	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0497		mg/kg	0.0500		99.5	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Manager: DAVID MCINNIS  
Fax To:

Reported:  
04-Oct-24 09:16

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4092640 - General Prep - Organics****Blank (4092640-BLK1)**

Prepared: 26-Sep-24 Analyzed: 27-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	53.6		mg/kg	50.0		107	48.2-134			
Surrogate: 1-Chlorooctadecane	50.4		mg/kg	50.0		101	49.1-148			

**LCS (4092640-BS1)**

Prepared &amp; Analyzed: 26-Sep-24

GRO C6-C10	224	10.0	mg/kg	200		112	66.4-123			
DRO >C10-C28	215	10.0	mg/kg	200		108	66.5-118			
Total TPH C6-C28	440	10.0	mg/kg	400		110	77.6-123			
Surrogate: 1-Chlorooctane	58.9		mg/kg	50.0		118	48.2-134			
Surrogate: 1-Chlorooctadecane	57.5		mg/kg	50.0		115	49.1-148			

**LCS Dup (4092640-BSD1)**

Prepared &amp; Analyzed: 26-Sep-24

GRO C6-C10	221	10.0	mg/kg	200		110	66.4-123	1.62	17.7	
DRO >C10-C28	206	10.0	mg/kg	200		103	66.5-118	4.22	21	
Total TPH C6-C28	427	10.0	mg/kg	400		107	77.6-123	2.88	18.5	
Surrogate: 1-Chlorooctane	63.3		mg/kg	50.0		127	48.2-134			
Surrogate: 1-Chlorooctadecane	57.0		mg/kg	50.0		114	49.1-148			

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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Cardinal Laboratories

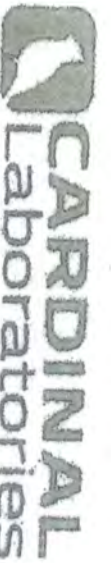
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensochem, LLC  
Project Manager: David M. Lewis  
Address: 600 Mariawild STE 400  
City: Miami  
State: TX Zip: 79701  
Phone #: 409-454-3804 Fax #:   
Project #: 03C1558321 Project Owner:   
Project Name: PLU CVX JV PC11  
Project Location: 31.205624, -103.904817  
Sample Name: David M. Lewis  
FOR LAB USE ONLY

Bill To: P.O. #  
Company: XTO  
Address: 3104 E. Green St  
City: Carlsbad  
State: NM Zip: 88220  
Phone #:   
Fax #:   
Analysis Request

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	ANALYSIS REQUEST								DATE	TIME																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL						OTHER :																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
245871	BH03B *	3	G	1			X						4/26/24	1324	X	X	TPH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												</

PLEASE NOTE: Laboratory and Ensochem, Cardwell facility are located in the vicinity of the site. All samples must be properly labeled and sealed. All samples must be properly labeled and sealed. All samples must be properly labeled and sealed.

Relinquished By: *David M. Lewis*  
Received By: *Stacie Gentry*  
Date: 4/26/24  
Time: 1011  
Received By: *Stacie Gentry*  
Date:   
Time:   
Remarks:   
Verbal Receipt: ☐ Yes ☐ No ☐ Not Phone #:  
All results are emailed. Please provide Email address: bbe11@ensochem.com  
Remarks:   
CC: 113982101  
\* Customer requested ID changes to:   
Incident #: NAPP2461641673  
Submitted Time: 4/26/24 10:11 AM  
Sample Condition:   
Cool: ☒ Yes ☐ No  
Sealed: ☒ Yes ☐ No  
Observed Temp. °C:   
Conserved Temp. °C:   
10/2/24

Delivered By: (Circle One)  
Sampler - UPS - Bus - Other:  
Observed Temp. °C: 4.32  
Conserved Temp. °C: 3.72  
Sample Condition:  
Cool: ☒ Yes ☐ No  
Infect: ☒ Yes ☐ No  
Checked By: *SK*  
Time: 4/26/24 10:11 AM  
Remarks:   
Verbal Receipt: ☐ Yes ☐ No ☐ Not Phone #:  
All results are emailed. Please provide Email address: bbe11@ensochem.com  
Remarks:   
CC: 113982101  
\* Customer requested ID changes to:   
Incident #: NAPP2461641673  
Submitted Time: 4/26/24 10:11 AM  
Sample Condition:   
Cool: ☒ Yes ☐ No  
Sealed: ☒ Yes ☐ No  
Observed Temp. °C:   
Conserved Temp. °C:   
10/2/24





Outlook

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PLU CVX JV PC 11-nAPP2401641673

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From Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Date Fri 11/1/2024 4:59 PM

To Brown, Colton S <colton.s.brown@exxonmobil.com>

Cc Dirkx, Kaylan <kaylan.dirkx@exxonmobil.com>; Garcia, Amanda <amanda.garcia@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Ben Belill <bbelill@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

[ \*\*EXTERNAL EMAIL\*\*]

Colton,

I realized it was a remediation plan and reviewed it as such. My apologies for accidentally putting closure on there. I hope you read the part about shallow perched water zones being considered groundwater. These are not part of the major aquifer structure and exist all over southeastern New Mexico. They can show up unexpectedly in various places and need to be considered. The Remediation Closure Report is unfortunately still denied.

A Clarification Document has been placed on the OCD website pertaining to frequently asked questions. The clarification for groundwater depth determination is listed below.

**IX. DETERMINING DEPTH TO GROUNDWATER:**

*a. The remediation levels provided in Table I are largely dependent upon depth to groundwater. As such, the OCD focuses upon depth to water estimation. 19.15.11(A)(2) NMAC allows for various means of determining depth to groundwater. If nearby wells are used, it is preferable if they are situated within ½-mile of the release, the water level information is no more than 25 years old, and well construction information is provided. If the water level information does not meet these criteria, the OCD may require boring to a limited depth for verification. If the operator has applicable information which does not meet the above preference, we will review it on a case by case basis to determine if it is acceptable.*

*b. If the water well information is representative of a confined aquifer (often described as "artesian"), the depth to water in the well will be considered the depth to the bottom of the upper confining layer, not the observed water level in the well.*

*c. It is important to note that wells installed for water supply purposes may not be screened across shallower, less-productive zones. Those less-productive zones might contain protectable water.*

Regards,

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
506 W. Texas Ave. | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



**From:** Brown, Colton S <colton.s.brown@exxonmobil.com>

**Sent:** Friday, November 1, 2024 2:28 PM

**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

**Cc:** Dirx, Kaylan <kaylan.dirx@exxonmobil.com>; Garcia, Amanda <amanda.garcia@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Ben Belill <bbelill@ensolum.com>

**Subject:** [EXTERNAL] PLU CVX JV PC 11-nAPP2401641673

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

Dear Mr. Hamlet,

We appreciate your review of the report submitted for Incident Number nAPP2401641673, however, we have some questions about the response and denial. In addition, we would like to clarify that the report submitted was a Remediation Work Plan, and not a Closure as stated below. The portal reflects only a Work Plan and no closure request is mentioned in the report. Also attached is the work plan for this particular release.

In your response you note that "Depth to groundwater is not adequately identified" however, we provided a description of a thorough investigation of the available groundwater data in the region. The OCD Notice "Process Update re: Submissions of Form C-141 Release Notification and Corrective Actions" notes the following:

- If nearby wells are used, it is preferable if they are situated within ½-mile of the release, the water level information is no more than 25 years old, and well construction information is provided. If the water level information does not meet these criteria, the OCD may require boring to a limited depth for verification. If the operator has applicable information which does not meet the above preference, OCD will review it on a case-by-case basis to determine if it is acceptable.

The Work Plan provided additional applicable information, though it does not meet the OCD's preference, it does provide a strong argument that regional depth to groundwater is greater than 100 feet below ground surface.

The nearest well to the Site (USGS 321205103544701), is located just over the preferred distance, at 0.59 miles. In addition, there are 5 wells (USGS and NMOSE) within a 1.25 mile radius, in all cardinal directions, all of which confirm depth to water is greater than 100 feet below ground surface.

The nearest well to the Site USGS 321205103544701 does utilize data that again is just over the preferred age, at 26 years since the last measurement. However, the well has documented at least 40 years of groundwater data from that well, during that time the water level did not fluctuate more than 6.24 feet. It is highly unlikely that the depth to water in this area would have risen to less than 100 feet within the last 26 years. Consistent well water data in the region is supported by a soil boring (one of the 5 within a 1.25 mile radius, C-04676) located 0.71 miles from the Site and drilled in 2022 to a depth of 120 feet bgs. No groundwater was observed in the soil boring after a 72-hour waiting period.

Based on the thorough review of the information above, XTO believes it is reasonable to assume depth to groundwater is greater than 100 feet bgs at the subject Site. XTO also believes it has provided applicable information and request that the OCD review to determine if it is acceptable. If this data is not acceptable, please let us know what alternative data the OCD is willing to accept in lieu of a soil boring. Requiring a soil boring in this instance, when one drilled in 2022 is located just 0.2 miles from where another would likely be installed, seems like an unnecessary request that will further delay the remediation and Closure of this release.

XTO has proposed in the Work Plan to excavate impacted soil identified in the delineation soil samples, ensure sidewalls meet with reclamation requirement in the top 4 feet, and analyze all confirmation soil samples for all constituents of concern.

Based on the information reviewed here, and because XTO has proposed to address the top 4 feet of the release following the reclamation requirement, we would ask that you reconsider the review of the Work Plan and approve the proposed remedial actions as stated in the Work Plan.

Thank you

**Colton Brown**  
Wastewater Advisor

**ExxonMobil Upstream Company**  
3104 E. Greene St.  
Carlsbad, NM 88220  
Cell Phone: 575-988-2390  
[colton.s.brown@exxonmobil.com](mailto:colton.s.brown@exxonmobil.com)

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## APPENDIX B

### BLM Sundry Form and Correspondence

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Well Name: POKER LAKE CVX JV PC	Well Location: T24S / R30E / SEC 21 / NWNE / 32.2101176 / -103.883852	County or Parish/State: EDDY / NM
Well Number: 11H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC068431	Unit or CA Name:	Unit or CA Number:
US Well Number: 300153976800S1	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2793044

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 05/30/2024	Time Sundry Submitted: 02:03
Date proposed operation will begin: 06/03/2024	

**Procedure Description:** XTO Permian Operating LLC., respectfully requests access off pad in order to complete remediation activities related to Incident Number nAPP2401641673 which involves the PLU CVX JV PC 11H flowline release that occurred on January 8, 2024. Excavation of impacted soil is needed in pasture and right-of-way (ROW) areas where the release occurred, located approximately 1.25 miles west-southwest of the PLU CVX JV PC 11H facility pad. Heavy equipment (backhoe, trackhoe, front loader, hydro vacuum truck) will be utilized to complete the excavation. After successful completion of remediation efforts, the disturbed areas will be backfilled and recontoured to match pre-existing conditions and re-seeded with the recommended BLM seed mixture. Please see attached site maps.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- PLU\_CVX\_JV\_PC\_11\_Map\_2\_20240530140152.pdf
- PLU\_CVX\_JV\_PC\_11\_Land\_Access\_Site\_Map\_20240530140126.pdf

Received by OCD: 1/28/2025 8:18:49 AM

Page 69 of 141

Well Name: POKER LAKE CVX JV PC	Well Location: T24S / R30E / SEC 21 / NWNE / 32.2101176 / -103.883852	County or Parish/State: EDDY / NM
Well Number: 11H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC068431	Unit or CA Name:	Unit or CA Number:
US Well Number: 300153976800S1	Operator: XTO PERMIAN OPERATING LLC	

Conditions of Approval

Specialist Review

PLU\_CVX\_JV\_PC\_11H\_FLOWLINE\_01\_20240530143246.docx  
Seed\_Mixture\_2\_Sandy\_Sites\_20240530143222.doc

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: SHERRY MORROW	Signed on: MAY 30, 2024 02:02 PM
Name: XTO PERMIAN OPERATING LLC	
Title: Regulatory Analyst	
Street Address: 6401 HOLIDAY HILL ROAD BLDG 5	
City: MIDLAND	State: TX
Phone: (432) 218-3671	
Email address: SHERRY.MORROW@EXXONMOBIL.COM	

Field



Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

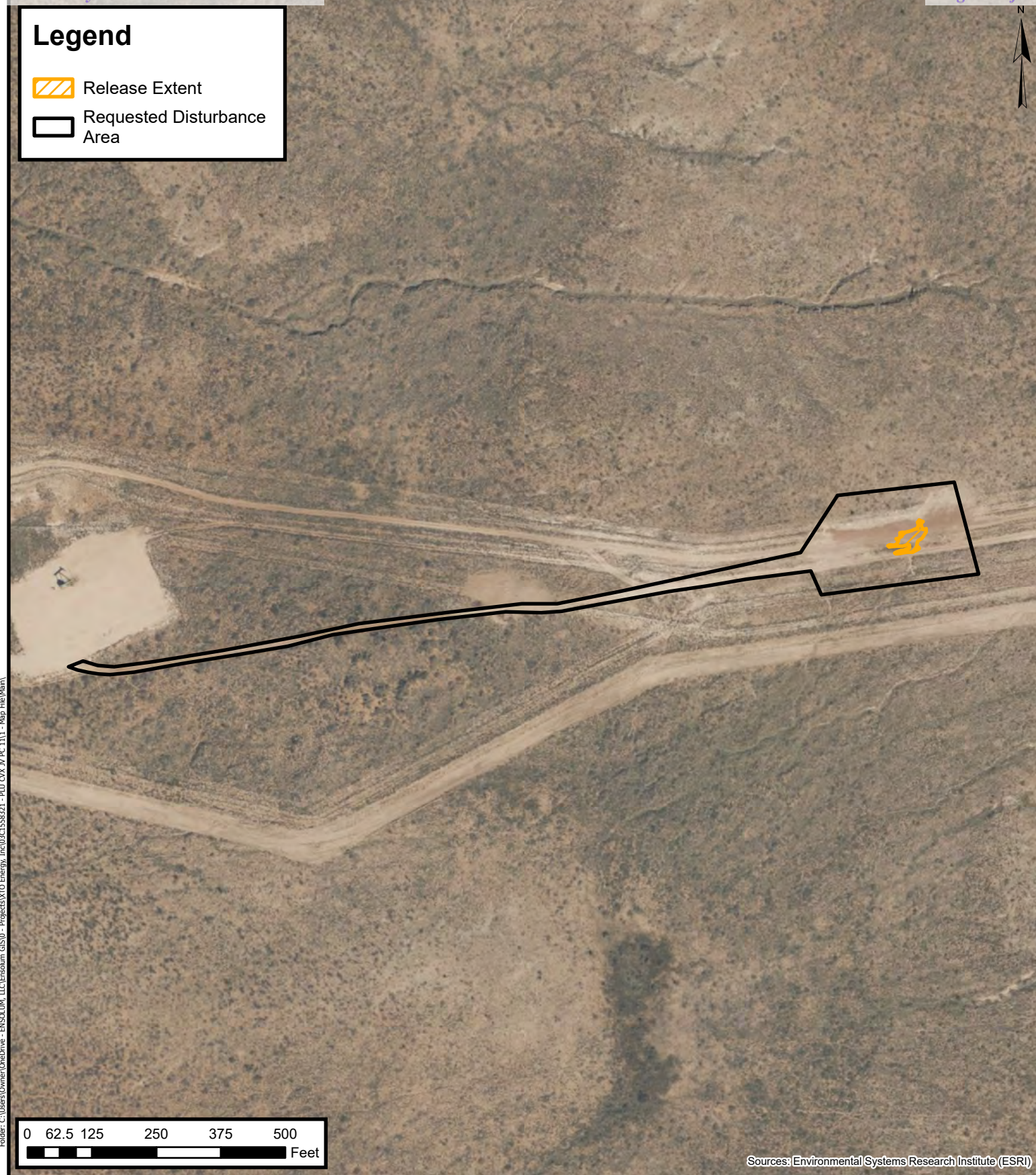
BLM Point of Contact

BLM POC Name: CRISHA A MORGAN	BLM POC Title: Environmental Protection Specialist
BLM POC Phone: 5752345987	BLM POC Email Address: camorgan@blm.gov
Disposition: Accepted	Disposition Date: 05/30/2024
Signature: CRISHA A. MORGAN	



## Legend

-  Release Extent
-  Requested Disturbance Area



## Site Map

XTO Energy, Inc  
PLU CVX JV PC 11  
Incident Number: nAPP2401641673  
Unit F, Section 20, Township 24 South, Range 30 East  
Eddy County, New Mexico

**FIGURE**

**1**







PLU CVX JV PC 11H FLOWLINE 01/08/2024

ENVIRONMENTAL IMPACT REVIEW:

BLM SURFACE/MINERALS

AN ARCH SURVEY WILL NEED TO BE COMPLETED BEFORE ANY DIRT WORK CAN BEGIN.

A BOTANY SURVEY WILL NEED TO BE COMPLETED BEFORE ANY DIRT WORK CAN BEGIN.

THIS LOCATION WILL REQUIRE BLM SEED MIXTURE #2 FOR SAND SITES. I HAVE ATTACHED A COPY FOR YOUR RECORDS.

Please let me know if you run into any issues, or have any more questions.

Thank you,

**Crisha A. Morgan** | Certified - Environmental Protection Specialist | Program Officer|COR| Spills  
Coordinator| Orphaned & Idled Well POC Lead  
Bureau of Land Management | Carlsbad Field Office  
620 E. Greene Street Carlsbad, NM 88220  
Cell 575-200-8648 | Office 575-234-5987 | [camorgan@blm.gov](mailto:camorgan@blm.gov)



**Seed Mixture 2, for Sandy Sites**

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)\* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed\* per acre:

<u>Species</u>	<u>lb/acre</u>
Sand dropseed ( <i>Sporobolus cryptandrus</i> )	1.0
Sand love grass ( <i>Eragrostis trichodes</i> )	1.0
Plains bristlegrass ( <i>Setaria macrostachya</i> )	2.0

\*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed



## APPENDIX C

### Photographic Log

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**Photographic Log**

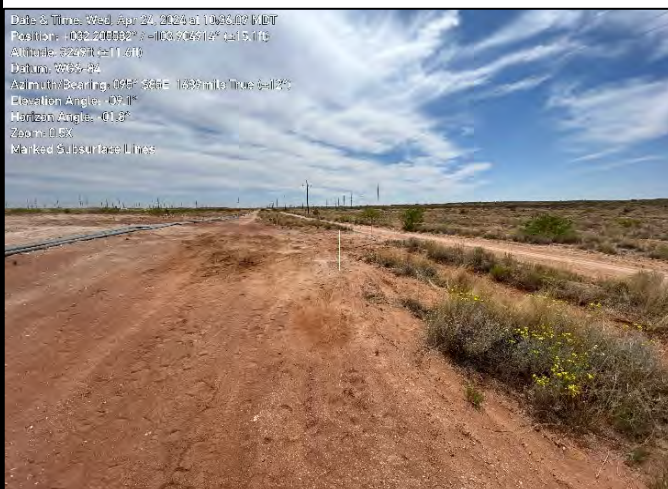
XTO Energy, Inc  
 PLU CVX JV PC 11  
 NAPP2401641673



Photograph: 1 Date: 1/9/2024  
 Description: Soil staining in release footprint  
 View: East



Photograph: 2 Date: 3/5/2024  
 Description: Soil staining in release footprint  
 View: Southwest



Photograph: 3 Date: 4/24/2024  
 Description: Soil staining in release footprint  
 View: Southeast



Photograph: 4 Date: 9/26/2024  
 Description: Core drilling activities  
 View: Northeast



**Photographic Log**

XTO Energy, Inc  
 PLU CVX JV PC 11  
 NAPP2401641673



Photograph: 5 Date: 11/19/2024  
 Description: Ongoing excavation in ROW  
 View: South



Photograph: 6 Date: 11/20/2024  
 Description: Excavation extent  
 View: East



Photograph: 7 Date: 11/20/2024  
 Description: Excavation extent  
 View: South



Photograph: 8 Date: 12/19/2024  
 Description: Additional excavation at FS18  
 View: West



## APPENDIX D

### Soil Disposal Manifests

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## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name David Byrd

Phone No. \_\_\_\_\_

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

## GENERATOR

NO. HW- 717260Generator Manifest # X70

Generator Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin \_\_\_\_\_

Lease/Well \_\_\_\_\_

Name & No. PLY CUX JV AC #1111County Project 03C1558321API No. NAPP 2401641673Rig Name & No. CC 113922 1001AFE/PO No. AA 30-015-69768

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	<u>Dump Truck</u>	_____
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		_____
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		_____
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		_____
Tank Bottoms	_____	INTERNAL USE ONLY	_____	TOP SOIL & CALICHE SALES	_____
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	QUANTITY	<u>10yds</u>
Gas Plant Waste	_____			TOP SOIL	CALICHE

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)(PRINT) AUTHORIZED AGENTS SIGNATURE David Byrd

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name SemTex mex

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Driver's Name Domingo BaezaPrint Name Domingo BaezaPhone No. 432-955-3819Truck No. 59

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE 11-15-24DRIVER'S SIGNATURE Domingo BaezaDELIVERY DATE 11-15-24DRIVER'S SIGNATURE Domingo Baeza

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. CFSite Name/  
Permit No.Halfway Facility / NM1-006Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220Phone No. 575-392-6368NORM READINGS TAKEN? (Circle One) YES ☒ NO ☐  
PASS THE PAINT FILTER TEST? (Circle One) YES ☒ NO ☐If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☒

## TANK BOTTOMS

Feet	Inches	BS&W/BBLS Received	BS&W (%)
1st Gauge	_____	Free Water	_____
2nd Gauge	_____	Total Received	_____
Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED 9/1/15

DENIED

If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE

C-138

Donc@northstarforms.com (877)499-0492

White - R360 ORIGINAL

Yellow- TRANSPORTER COPY

Pink- GENERATOR SITE COPY

Gold- RETURN TO GENERATOR

308.R360-5240LE rev 08/23





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name David Byrd

Phone No. \_\_\_\_\_

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

## GENERATOR

NO. HW- 717261Generator Manifest # X40

Generator Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin

Lease/Well

Name & No. PLU Cvx JV PC #11County Project 0301550321API No. NAPP 2401641673Rig Name & No. CC 1139821001AFE/PO No. 30-015-69768

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	Washout Water (Non-Injectable)	_____	OTHER EXEMPT E&P WASTE STREAMS <u>Dump Trump</u>
Oil Based Cuttings	_____		Completion Fluid/Flow Back (Non-Injectable)	_____	
Water Based Muds	_____		Produced Water (Non-Injectable)	_____	
Water Based Cuttings	_____		Gathering Line Water/Waste (Non-Injectable)	_____	
Produced Formation Solids	_____				
Tank Bottoms	_____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES		
E&P Contaminated Soil	_____		Truck Washout (exempt waste)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	QUANTITY <u>10</u>
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE David Byrd

DATE

SIGNATURE

## TRANSPORTER

Transporter's

Name SemTex mex

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Driver's Name Domingo BaezaPrint Name Domingo BaezaPhone No. 432-955-3819Truck No. 59

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE 11-15-24DRIVER'S SIGNATURE Domingo BaezaDELIVERY DATE 11-15-24DRIVER'S SIGNATURE Domingo Baeza

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 71

Site Name/

Permit No. \_\_\_\_\_

Address \_\_\_\_\_

Halfway Facility / NM1-0066601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220Phone No. 575-392-6368NORM READINGS TAKEN? (Circle One) YES ☒ NO ☐  
PASS THE PAINT FILTER TEST? (Circle One) YES ☒ NO ☐If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☐

## TANK BOTTOMS

Feet	Inches	BS&W/BBLS Received	BS&W (%)
1st Gauge	_____	Free Water	_____
2nd Gauge	_____	Total Received	_____
Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED ☒DENIED ☐

If denied, why? \_\_\_\_\_

NAME (PRINT) \_\_\_\_\_

DATE \_\_\_\_\_

TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_





# NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT) \*REQUIRED INFORMATION\*

Name David Byrd

Phone No. \_\_\_\_\_

<b>GENERATOR</b>		NO. <b>HW-717262</b>
Generator Manifest # <u>X70</u>	Location of Origin <u>Plu Cux JV PC #11</u>	
Generator Name _____	Lease/Well _____	
Address _____	Name & No. <u>Project 03C15-8321</u>	
City, State, Zip _____	County <u>NMPP 2401641673</u>	
Phone No. _____	API No. <u>CC 1139821001</u>	
	Rig Name & No. _____	
	AFE/PO No. <u>20-015-69768</u>	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)			
Oil Based Muds _____	<b>NON-INJECTABLE WATERS</b>	<b>OTHER EXEMPT E&amp;P WASTE STREAMS</b>	
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____	<u>Dump Truck</u>	
Water Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____		
Water Based Cuttings _____	Produced Water (Non-Injectable) _____		
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____		
Tank Bottoms _____	<b>INTERNAL USE ONLY</b>	<b>TOP SOIL &amp; CALICHE SALES</b>	
E&P Contaminated Soil <u>✓</u>	Truck Washout (exempt waste) YES <u>NO</u>	QUANTITY <u>10</u>	TOP SOIL CALICHE
Gas Plant Waste _____			

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

**NON-EXEMPT E&P Waste/Service Identification and Amount**  
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from **Non-Exempt Waste List** on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ **RCRA EXEMPT:** Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ **RCRA NON-EXEMPT:** Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

☐ **EMERGENCY NON-OILFIELD** Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

David Byrd  
(PRINT) AUTHORIZED AGENTS SIGNATURE DATE SIGNATURE

<b>TRANSPORTER</b>	
Transporter's Name <u>Semtex mex</u>	Driver's Name <u>Domingo Baera</u>
Address _____	Print Name <u>Domingo Baera</u>
Phone No. _____	Phone No. <u>432-955-3819</u>
Transporter Ticket # _____	Truck No. <u>59</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-15-24 Domingo Baera 11-15-24 Domingo Baera  
SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE DRIVER'S SIGNATURE

TRUCK TIME STAMP	DISPOSAL FACILITY	RECEIVING AREA
IN: _____ OUT: _____	Name/No. <u>28</u>	

Site Name/Permit No. Halfway Facility / NM1-006 Phone No. 575-392-6368

Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (Circle One) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

<b>TANK BOTTOMS</b>			
Feet	Inches	BS&W/BBLs Received	BS&W (%)
1st Gauge _____	_____	Free Water _____	_____
2nd Gauge _____	_____	Total Received _____	_____

I hereby certify that the above load material has been (circle one) ACCEPTED DENIED If denied, why? \_\_\_\_\_

David Byrd 11/15 DM \_\_\_\_\_  
NAME (PRINT) DATE TITLE SIGNATURE





# NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name David

Phone No. 5411d

<b>GENERATOR</b>		NO. <u>HW-595605</u>
Generator Manifest # <u>X TO</u>	Location of Origin <u>PLY CUX JV PC 11 #</u>	
Generator Name _____	Name & No. _____	
Address _____	County <u>Edm</u>	
	API No. <u>30-1015-69768</u>	
City, State, Zip _____	Rig Name & No. _____	
Phone No. _____	AFE/PO No. <u>03C1558321</u>	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)			
Oil Based Muds _____	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS	
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____		
Waste Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____		
Water Based Cuttings _____	Produced Water (Non-Injectable) _____		
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____		
Tank Bottoms _____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES	
E&P Contaminated Soil <u>✓</u>	Truck Washout (exempt waste) <u>YES</u> <u>NO</u>	QUANTITY <u>5</u>	TOP SOIL <u>✓</u> CALICHE
Gas Plant Waste _____			

WASTE GENERATION PROCESS: ☒ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount  
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY	B - BARRELS	L - LIQUID	Y - YARDS	E - EACH
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I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

<b>TRANSPORTER</b>	
Transporter's Name <u>Sem Tex Mex</u>	Driver's Name <u>Michael Boeza</u>
Address <u>143 SW AVE C Seminole Tx</u>	Print Name <u>Michael Boeza</u>
Phone No. <u>432-209-9447</u>	Phone No. <u>432-209-4709</u>
Transporter Ticket # <u>696605</u>	Truck No. <u>#130</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE \_\_\_\_\_ DRIVER'S SIGNATURE \_\_\_\_\_ DELIVERY DATE 11/15 DRIVER'S SIGNATURE Michael Boeza

TRUCK TIME STAMP	DISPOSAL FACILITY	RECEIVING AREA
IN: _____ OUT: _____		Name/No. <u>10</u>

Site Name/Permit No. Halfway Facility / NM1-006 Phone No. 575-392-6368

Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (Circle One) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

TANK BOTTOMS			
Feet	Inches	BS&W/BBLS Received	BS&W (%)
1st Gauge _____	_____	Free Water _____	_____
2nd Gauge _____	_____	Total Received _____	_____
Received _____	_____		

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? \_\_\_\_\_

NAME (PRINT) \_\_\_\_\_ DATE \_\_\_\_\_ TITLE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

Received by OGD: 1/28/2025 8:18:49 AM

Released to Imaging: 2/6/2025 9:43:22 AM





# NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name David Byrd

Phone No. 575-988-418

## GENERATOR

NO. HW-596605

Generator Manifest # X TO

Location of Origin PLU CUX JV PC 11 #

Generator Name \_\_\_\_\_

Name & No. \_\_\_\_\_

Address \_\_\_\_\_

County Elddy

City, State, Zip \_\_\_\_\_

API No. 36-015-69768

Phone No. \_\_\_\_\_

Rig Name & No. 03C1558321

AFE/PO No. \_\_\_\_\_

### EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____		
Waste Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____	TOP SOIL & CALICHE SALES	_____
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	<u>YES</u> NO	QUANTITY	<u>5</u> TOP SOIL CALICHE
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

### NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name Sem Tex Mex

Driver's Name Michael Boera

Address 1113 SW AVE C Seminole TX

Print Name Michael Boera

Phone No. 432-209-9447

Phone No. 432-209-4709

Transporter Ticket # 696605

Truck No. # 30

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

### TRUCK TIME STAMP

### DISPOSAL FACILITY

### RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 14 W/K

Site Name/ Halfway Facility / NM1-006

Phone No. 575-392-6368

Permit No. \_\_\_\_\_

Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

## TANK BOTTOMS

	Feet	Inches
1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W/BBLs Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name David Byrd

Phone No. \_\_\_\_\_

<b>GENERATOR</b>		NO. <u>HW-696607</u>
Generator Manifest # <u>X TO</u>	Location of Origin <u>PLU CVX JV PC 11H</u>	
Generator Name _____	Lease/Well Name & No. _____	
Address _____	County <u>Eddy</u>	
City, State, Zip _____	API No. <u>30-015-69768</u>	
Phone No. _____	Rig Name & No. _____	
	AFE/PO No. _____	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)			
Oil Based Muds _____	<b>NON-INJECTABLE WATERS</b>		<b>OTHER EXEMPT E&amp;P WASTE STREAMS</b>
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____		
Waste Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____		
Water Based Cuttings _____	Produced Water (Non-Injectable) _____		
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____		
Tank Bottoms _____	<b>INTERNAL USE ONLY</b>		<b>TOP SOIL &amp; CALICHE SALES</b>
E&P Contaminated Soil <u>✓</u>	Truck Washout (exempt waste) YES _____ NO _____	QUANTITY <u>3</u>	(TOP SOIL) _____ (CALICHE) _____
Gas Plant Waste _____			
WASTE GENERATION PROCESS: <input type="checkbox"/> DRILLING <input type="checkbox"/> COMPLETION <input type="checkbox"/> PRODUCTION <input type="checkbox"/> GATHERING LINES			

NON-EXEMPT E&P Waste/Service Identification and Amount	
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.	
Non-Exempt Other _____	*please select from <b>Non-Exempt Waste List</b> on back

DISPOSAL QUANTITY	B - BARRELS	L - LIQUID	Y - YARDS	E - EACH
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I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ **RCRA EXEMPT:** Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ **RCRA NON-EXEMPT:** Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ **MSDS Information** ☐ **RCRA Hazardous Waste Analysis** ☐ **Other (Provide Description Below)**

☐ **EMERGENCY NON-OILFIELD** Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE _____	DATE _____	SIGNATURE _____
---	------------	-----------------

<b>TRANSPORTER</b>	
Transporter's Name <u>Sem Tex Mex</u>	Driver's Name <u>Michael Bieza</u>
Address <u>1113 SW Ave C Seminole TX</u>	Print Name <u>Michael Bieza</u>
Phone No. <u>432-209-9497</u>	Phone No. <u>432-209-4709</u>
Transporter Ticket # <u>696607</u>	Truck No. <u>30</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE <u>11-18-24</u>	DRIVER'S SIGNATURE <u>Michael Bieza</u>	DELIVERY DATE _____	DRIVER'S SIGNATURE _____
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TRUCK TIME STAMP	DISPOSAL FACILITY	RECEIVING AREA
IN: _____ OUT: _____		Name/No. <u>28</u>

Site Name/Permit No. <u>Halfway Facility / NM1-006</u>	Phone No. <u>575-392-6368</u>
Address <u>6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220</u>	
NORM READINGS TAKEN? (Circle One) YES <u>NO</u>	If YES, was reading > 50 micro roentgens? (Circle One) YES _____ NO _____
PASS THE PAINT FILTER TEST? (Circle One) YES <u>NO</u>	

<b>TANK BOTTOMS</b>			
Feet	Inches	BS&W/BBLs Received	BS&W (%)
1st Gauge _____	_____	Free Water _____	_____
2nd Gauge _____	_____	Total Received _____	_____
Received _____	_____		

I hereby certify that the above load material has been (circle one): ACCEPTED 11/18/24 ADY If denied, why? \_\_\_\_\_

NAME (PRINT) \_\_\_\_\_ DATE \_\_\_\_\_ TITLE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

Received by OGD: 12/8/2025 8:18:49 AM

Released to Imaging: 2/6/2025 9:43:22 AM





**NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST**  
(PLEASE PRINT)

Company Man Contact Information

Name

Phone No.

<b>GENERATOR</b>		NO. <b>AD-0014942</b>
Generator Manifest #: <u>X10</u>	Location of Origin Lease/Well Name & No. <u>CVX JV, PC #11H</u>	
Generator Name	County <u>El Paso</u>	
Address	API No. <u>30-015-1897108</u>	
City, State, Zip	Rig Name & No. <u>0361358321</u>	
Phone No.	AFE/PO No. <u>WAP240641613</u>	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)			
Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS	
Oil Based Cuttings	Washout Water (Non-Injectable)		
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings	Produced Water (Non-Injectable)		
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES	
E&P Contaminated Soil	Truck Washout (exempt waste) YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	QUANTITY	TOP SOIL CALICHE
Gas Plant Waste			
WASTE GENERATION PROCESS: <input type="checkbox"/> DRILLING <input type="checkbox"/> COMPLETION <input type="checkbox"/> PRODUCTION <input type="checkbox"/> GATHERING LINES			

NON-EXEMPT E&P Waste/Service Identification and Amount			
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.			
Non-Exempt Other	*please select from Non-Exempt Waste List on back		
DISPOSAL QUANTITY	B - BARRELS	L - LIQUID <u>20</u>	Y - YARDS <u>1</u>
			E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)
- ☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS NAME

DATE

SIGNATURE

<b>TRANSPORTER</b>	
Transporter's Name <u>Sem Tex Mex</u>	Driver's Name <u>Gilbert H. H. H.</u>
Address	Print Name
Phone No. <u>432-209-4250</u>	Phone No.
Transporter Ticket #	Truck No. <u>38 Bettydumy</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

<b>TRUCK TIME STAMP</b>	<b>DISPOSAL FACILITY</b>	<b>RECEIVING AREA</b>
IN: _____ OUT: _____	Name/No. <u>Je</u>	
Site Name/ Permit No. <u>Antelope Draw Facility - Permit #</u>	Phone No. <u>575-236-1734</u>	
Address <u>476 Battle Axe Rd., Jal, NM 88252</u>		
NORM READINGS TAKEN? (Circle One) YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	If YES, was reading > 50 micro roentgens? (circle one) YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
PASS THE PAINT FILTER TEST? (Circle One) YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		

TANK BOTTOMS			
Feet	Inches	BS&W/BBLS Received	BS&W (%)
1st Gauge		Free Water	
2nd Gauge		Total Received	
Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT) \*REQUIRED INFORMATION\*

Name Rent Act

Phone No. \_\_\_\_\_

<b>GENERATOR</b>		NO. <u>HW- 682252</u>
Generator Manifest # <u>XTO</u>	Location of Origin <u>Plu</u>	
Generator Name _____	Lease/Well Name & No. <u>CVX JV P H 124</u>	
Address _____	County <u>El Paso</u>	
	API No. <u>30-015-149768</u>	
City, State, Zip _____	Rig Name & No. <u>03-1558321</u>	
Phone No. _____	AFE/PO No. <u>112002901641673</u>	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)			
Oil Based Muds _____	NON-INJECTABLE WATERS _____	OTHER EXEMPT E&P WASTE STREAMS _____	
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____		
Waste Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____		
Water Based Cuttings _____	Produced Water (Non-Injectable) _____		
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____		
Tank Bottoms _____	INTERNAL USE ONLY _____	TOP SOIL & CALICHE SALES _____	
E&P Contaminated Soil _____	Truck Washout (exempt waste) YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	QUANTITY _____	TOP SOIL _____ CALICHE _____
Gas Plant Waste _____			
WASTE GENERATION PROCESS: <input type="checkbox"/> DRILLING <input type="checkbox"/> COMPLETION <input type="checkbox"/> PRODUCTION <input type="checkbox"/> GATHERING LINES			

NON-EXEMPT E&P Waste/Service Identification and Amount	
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.	
Non-Exempt Other _____	*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY _____	B - BARRELS _____	L - LIQUID _____	Y - YARDS <u>20</u>	E - EACH _____
-------------------------	-------------------	------------------	---------------------	----------------

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE _____	DATE _____	SIGNATURE _____
---	------------	-----------------

<b>TRANSPORTER</b>	
Transporter's Name <u>Sem Tex Mex</u>	Driver's Name <u>Wilbert Hancock</u>
Address _____	Print Name _____
Phone No. <u>432-209-4230</u>	Phone No. _____
Transporter Ticket # _____	Truck No. <u>38 Bellchump</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE \_\_\_\_\_ DRIVER'S SIGNATURE \_\_\_\_\_ DELIVERY DATE 11-22-24 DRIVER'S SIGNATURE Wilbert Hancock

TRUCK TIME STAMP	DISPOSAL FACILITY	RECEIVING AREA
IN: _____ OUT: _____		Name/No. <u>88</u>

Site Name/Permit No. <u>Halfway Facility / NM1-006</u>	Phone No. <u>575-392-6368</u>
Address <u>6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220</u>	
NORM READINGS TAKEN? (Circle One) YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	If YES, was reading > 50 micro roentgens? (Circle One) YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
PASS THE PAINT FILTER TEST? (Circle One) YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	

TANK BOTTOMS			
Feet	Inches	BS&W/BBLs Received	BS&W (%)
1st Gauge _____	_____	Free Water _____	_____
2nd Gauge _____	_____	Total Received _____	_____
Received _____	_____		

I hereby certify that the above load material has been (circle one): ACCEPTED DECLINED If denied, why? \_\_\_\_\_

NAME (PRINT) \_\_\_\_\_ DATE \_\_\_\_\_ TITLE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

Received by OGD: 1/28/2025 8:18:49 AM

Released to Imaging: 2/6/2025 9:43:22 AM





# NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Kent Reiz

Phone No. \_\_\_\_\_

## GENERATOR

NO. HW-708641  
PLU CUX SUP #114

Generator Manifest # X TO  
Generator Name \_\_\_\_\_  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

Location of Origin \_\_\_\_\_  
Lease/Well Name & No. Caddy  
County Tarrant  
API No. NAD02401641673  
Rig Name & No. 30-015-69768  
AFE/PO No. CC 1139821001

### EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings	Washout Water (Non-Injectable)	<u>Belly</u>
Water Based Muds	Completion Fluid/Flow Back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES
E&P Contaminated Soil	Truck Washout (exempt waste)	QUANTITY TOP SOIL CALICHE
Gas Plant Waste	YES (NO)	

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

### NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)
- ☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name Sen Tex Mex  
Address \_\_\_\_\_  
Phone No. (432) 209-4230  
Transporter Ticket # \_\_\_\_\_

Driver's Name Adrian Hines  
Print Name Adrian Hines  
Phone No. 29645  
Truck No. \_\_\_\_\_

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE 11/22/24

DRIVER'S SIGNATURE Adrian Hines

DELIVERY DATE 11/22/24

DRIVER'S SIGNATURE Adrian Hines

### TRUCK TIME STAMP

### DISPOSAL FACILITY

### RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 78

Site Name/Permit No. Halfway Facility / NM1-006  
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One) YES ☒ NO ☐  
PASS THE PAINT FILTER TEST? (Circle One) YES ☒ NO ☐

If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☐

## TANK BOTTOMS

Feet	Inches	BS&W/BBLs Received	BS&W (%)
1st Gauge		Free Water	
2nd Gauge		Total Received	
Received			

I hereby certify that the above load material has been (circle one): ☒ ACCEPTED ☐ DENIED If denied, why? \_\_\_\_\_  
NAME (PRINT) \_\_\_\_\_ DATE \_\_\_\_\_ TITLE \_\_\_\_\_ SIGNATURE \_\_\_\_\_





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name Kent Rerz

Phone No. \_\_\_\_\_

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

## GENERATOR

NO. HW-708637Generator Manifest # X70Location of Origin  
Lease/WellPLU CUX JUPC #11H

Generator Name \_\_\_\_\_

Name &amp; No.

Eddy

Address \_\_\_\_\_

County

Ta. Loc: 1 APP 24-01641673

City, State, Zip \_\_\_\_\_

API No.

30-015-69768

Phone No. \_\_\_\_\_

Rig Name &amp; No.

CC: 1139821001

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	<u>Bell</u>	
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____	TOP SOIL & CALICHE SALES	_____
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	QUANTITY	_____
Gas Plant Waste	_____			TOP SOIL	CALICHE

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name	<u>Sen Ter Mex</u>	Driver's Name	<u>Adrian (Dino)</u>
Address		Print Name	<u>Adrian (Dino)</u>
Phone No.	<u>(432) 204-4230</u>	Phone No.	
Transporter Ticket #		Truck No.	<u>296045</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE	<u>11/22/24</u>	DRIVER'S SIGNATURE	<u>Adrian (Dino)</u>	DELIVERY DATE	<u>11/22/24</u>	DRIVER'S SIGNATURE	<u>Adrian (Dino)</u>
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## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_ Name/No. 20

Site Name/ Permit No.	<u>Halfway Facility / NM1-006</u>	Phone No.	<u>575-392-6368</u>
Address	<u>6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220</u>		

NORM READINGS TAKEN? (Circle One) YES ☒ NO ☐PASS THE PAINT FILTER TEST? (Circle One) YES ☒ NO ☐If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☐

## TANK BOTTOMS

Feet	Inches	BS&W/BBLs Received	BS&W (%)
1st Gauge		Free Water	
2nd Gauge		Total Received	
Received			

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name Kent Kent

Phone No. \_\_\_\_\_

GENERATOR

NO. HW-758630  
PLU CVX SUPC # 44

Generator Manifest # 470  
Generator Name \_\_\_\_\_  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

Location of Origin  
Lease/Well Name & No. Eddy  
County Eddy  
API No. 30-015-69768  
Rig Name & No. CC-1139821001  
AFE/PO No. \_\_\_\_\_

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____
Tank Bottoms	_____	INTERNAL USE ONLY	_____
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
Gas Plant Waste	_____	QUANTITY	TOP SOIL CALICHE

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)
- ☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name Sam Tex Mex  
Address \_\_\_\_\_  
Phone No. (432) 209-4230  
Transporter Ticket # \_\_\_\_\_

Driver's Name Adrian Luna  
Print Name Adrian Luna  
Phone No. \_\_\_\_\_  
Truck No. 296045

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 251

Site Name/  
Permit No. Halfway Facility / NM1-006  
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One) YES ☐ NO ☐  
PASS THE PAINT FILTER TEST? (Circle One) YES ☐ NO ☐

If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☐

TANK BOTTOMS

Feet	Inches	BS&W/BBLs Received	BS&W (%)
_____	_____	Free Water	_____
_____	_____	Total Received	_____

I hereby certify that the above load material has been (circle one): ACCEPTED 11-22-24 Rec If denied, why? mmmmmmmm  
NAME (PRINT) \_\_\_\_\_ DATE \_\_\_\_\_ TITLE \_\_\_\_\_ SIGNATURE \_\_\_\_\_





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name David Byrd

Phone No. \_\_\_\_\_

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Generator Manifest # <u>X70</u>		<b>GENERATOR</b>		NO. <u>HW- 718207</u>	
Generator Name _____		Location of Origin _____		Lease/Well _____	
Address _____		Name & No. <u>PLUCVXTVPC H 11 H</u>		County <u>Project: 03CIS (88) 1</u>	
City, State, Zip _____		API No. <u>API: 30-015-69768</u>		Rig Name & No. <u>CC-1139231001</u>	
Phone No. _____		AFE/PO No. <u>Incident: nAPP2401641672</u>			

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)					
Oil Based Muds	_____	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS		
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____		
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES		
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES	NO	QUANTITY
Gas Plant Waste	_____				TOP SOIL CALICHE
WASTE GENERATION PROCESS: <input type="checkbox"/> DRILLING <input type="checkbox"/> COMPLETION <input type="checkbox"/> PRODUCTION <input type="checkbox"/> GATHERING LINES					

NON-EXEMPT E&P Waste/Service Identification and Amount			
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.			
Non-Exempt Other _____		*please select from Non-Exempt Waste List on back	
DISPOSAL QUANTITY	B - BARRELS	L - LIQUID	<u>Y-YARDS</u> <u>12</u>
			E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)
- ☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

<b>TRANSPORTER</b>	
Transporter's Name <u>Sentex Mex</u>	Driver's Name <u>Corny Reimer</u>
Address _____	Print Name _____
Phone No. _____	Phone No. _____
Transporter Ticket # _____	Truck No. <u>1</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____	DRIVER'S SIGNATURE _____	DELIVERY DATE <u>11-23-24</u>	DRIVER'S SIGNATURE <u>Corny Reimer</u>
<b>TRUCK TIME STAMP</b>		<b>DISPOSAL FACILITY</b>	
IN: _____	OUT: _____	RECEIVING AREA	
		Name/No. <u>28</u>	

Site Name/ Permit No. <u>Halfway Facility / NM1-006</u>	Phone No. <u>575-392-6368</u>
Address <u>6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220</u>	
NORM READINGS TAKEN? (Circle One) YES <input type="checkbox"/> NO <input type="checkbox"/>	If YES, was reading > 50 micro roentgens? (Circle One) YES <input type="checkbox"/> NO <input type="checkbox"/>
PASS THE PAINT FILTER TEST? (Circle One) YES <input type="checkbox"/> NO <input type="checkbox"/>	

TANK BOTTOMS			
Feet	Inches	BS&W/BBLs Received	BS&W (%)
1st Gauge _____	_____	Free Water	_____
2nd Gauge _____	_____	Total Received	_____
Received _____	_____		

I hereby certify that the above load material has been (circle one): ACCEPTED 11-23-24 DENIED 11-23-24 If denied, why? \_\_\_\_\_

NAME (PRINT) \_\_\_\_\_ DATE \_\_\_\_\_ TITLE \_\_\_\_\_ SIGNATURE \_\_\_\_\_





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name David Byrd

Phone No. \_\_\_\_\_

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Generator Manifest # <u>X70</u>	<b>GENERATOR</b>	NO. <u>HW- 718206</u>
Generator Name _____	Location of Origin _____	
Address _____	Lease/Well Name & No. <u>PL/CVX JVPC H 11 H</u>	
City, State, Zip _____	County <u>Project 03C1558311</u>	
Phone No. _____	API No. <u>AP 30-015-69768</u>	
	Rig Name & No. <u>CC 1139831001</u>	
	AFE/PO No. <u>Incident: WAPP901691678</u>	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)			
Oil Based Muds _____	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS	
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____	<u>Dump Truck</u>	
Water Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____		
Water Based Cuttings _____	Produced Water (Non-Injectable) _____		
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____		
Tank Bottoms _____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES	
E&P Contaminated Soil <u>/</u>	Truck Washout (exempt waste) YES _____ NO _____	QUANTITY	TOP SOIL CALICHE
Gas Plant Waste _____			
WASTE GENERATION PROCESS: <input type="checkbox"/> DRILLING <input type="checkbox"/> COMPLETION <input type="checkbox"/> PRODUCTION <input type="checkbox"/> GATHERING LINES			

NON-EXEMPT E&P Waste/Service Identification and Amount	
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.	
Non-Exempt Other _____	*please select from <b>Non-Exempt Waste List</b> on back

DISPOSAL QUANTITY	B - BARRELS	L - LIQUID	Y - YARDS <u>19</u>	E - EACH
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I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)
- ☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

Transporter's Name <u>Sentex Mex</u>	<b>TRANSPORTER</b>	Driver's Name <u>Corny Reimer</u>
Address _____		Print Name _____
Phone No. _____		Phone No. _____
Transporter Ticket # _____		Truck No. <u>1</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____	DRIVER'S SIGNATURE _____	DELIVERY DATE <u>11-20-24</u>	DRIVER'S SIGNATURE <u>Gabe Jones</u>
<b>TRUCK TIME STAMP</b>		<b>DISPOSAL FACILITY</b>	
IN: _____	OUT: _____	RECEIVING AREA <u>28</u>	
		Name/No. _____	

Site Name/Permit No. <u>Halfway Facility / NM1-006</u>	Phone No. <u>575-392-6368</u>
Address <u>6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220</u>	
NORM READINGS TAKEN? (Circle One) YES <u>NO</u>	If YES, was reading > 50 micro roentgens? (Circle One) YES <u>NO</u>
PASS THE PAINT FILTER TEST? (Circle One) YES <u>NO</u>	

TANK BOTTOMS			
Feet	Inches	BS&W/BBLS Received	BS&W (%)
1st Gauge _____	_____	Free Water	_____
2nd Gauge _____	_____	Total Received	_____
Received _____	_____		

I hereby certify that the above load material has been (circle one): ACCEPTED 11/20/24 APR Aut

NAME (PRINT) \_\_\_\_\_ DATE \_\_\_\_\_ TITLE \_\_\_\_\_ SIGNATURE \_\_\_\_\_





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name Ken Retz

Phone No. \_\_\_\_\_

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

## GENERATOR

NO. HW-717080

Generator Manifest # X70

Generator Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin  
Lease/Well  
Name & No. PLU CUX JV PC 11 H

County 03C1558321

API No. 30-015-69768

Rig Name & No. 2401641673

AFE/PO No. 1139821001

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____		
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____		
E&P Contaminated Soil	<u>20</u>	Truck Washout (exempt waste)	YES NO	QUANTITY	TOP SOIL CALICHE
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 90 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name Sen Tex Mex

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Driver's Name Peter

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Truck No. 102

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 28

Site Name/  
Permit No. Halfway Facility / NM1-006

Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading &gt; 50 micro roentgens? (Circle One) YES NO

## TANK BOTTOMS

Feet	Inches	BS&W/BBLS Received	BS&W (%)
1st Gauge		Free Water	
2nd Gauge		Total Received	
Received			

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

-138

Phone: northstarforms.com (877)499-0492

White - R360 ORIGINAL

Yellow- TRANSPORTER COPY

Pink- GENERATOR SITE COPY

Gold- RETURN TO GENERATOR

308.R360-5240LE rev 08/23





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name Kent Betz

Phone No. \_\_\_\_\_

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

## GENERATOR

NO. HW-717079Generator Manifest # XT0

Generator Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin

Lease/Well

Name & No. PLU CVX JV PC 11HCounty 03C1558321API No. 30-015-69768Rig Name & No. 2401641673AFE/PO No. 1139821001

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____	
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____	
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____	<u>Belly Dump</u>
Tank Bottoms	_____	INTERNAL USE ONLY	_____	TOP SOIL & CALICHE SALES
E&P Contaminated Soil	<u>20</u>	Truck Washout (exempt waste)	YES _____ NO _____	QUANTITY _____ TOP SOIL _____ CALICHE _____
Gas Plant Waste	_____			

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 90 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name Sea Tex Mex

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Driver's Name

Print Name

Phone No.

Truck No. 108

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. [Signature]Site Name/  
Permit No.Halfway Facility / NM1-006Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No.

575-392-6368NORM READINGS TAKEN? (Circle One) YES \_\_\_\_\_ NO \_\_\_\_\_  
PASS THE PAINT FILTER TEST? (Circle One) YES \_\_\_\_\_ NO \_\_\_\_\_

If YES, was reading &gt; 50 micro roentgens? (Circle One) YES \_\_\_\_\_ NO \_\_\_\_\_

## TANK BOTTOMS

Feet	Inches
1st Gauge	_____
2nd Gauge	_____
Received	_____

BS&W/BBLS Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED 11/22DENIED [Signature]

If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name Rent Retz

Phone No. \_\_\_\_\_

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

## GENERATOR

NO. HW- 717078Generator Manifest # X70

Generator Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin

Lease/Well

Name & No. PLUCYX JV PC 11ACounty 03C1558321API No. 30-015-69768Rig Name & No. 2401641673AFE/PO No. 1139821001

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____
Tank Bottoms	_____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES
E&P Contaminated Soil	<u>20</u>	Truck Washout (exempt waste)	YES NO QUANTITY TOP SOIL CALICHE
Gas Plant Waste	_____		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY

B - BARRELS

L - LIQUID

20 Y - YARDS

E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name

Sen Tex Mex

Driver's Name

Peter

Address \_\_\_\_\_

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Truck No. 109

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 28Site Name/  
Permit No.Halfway Facility / NM1-006

Phone No.

575-392-6368

Address

6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220NORM READINGS TAKEN? (Circle One) YES ☒ NOIf YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NOPASS THE PAINT FILTER TEST? (Circle One) YES ☒ NO

## TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

BS&amp;W/BBLs Received

Free Water

Total Received

BS&amp;W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

C-138

Donc@northstarforms.com (877)499-0492

White - R360 ORIGINAL

Yellow- TRANSPORTER COPY

Pink- GENERATOR SITE COPY

Gold- RETURN TO GENERATOR

308.R360-5240LE rev 08/23





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name David Byrd

Phone No. \_\_\_\_\_

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

## GENERATOR

NO. HW- 717263Generator Manifest # X+0

Generator Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin \_\_\_\_\_

Lease/Well \_\_\_\_\_

Name & No. PLU CVX JV PC #11HCounty Project 03C1552221API No. 30-015-69768Rig Name & No. CC 1139821001AFE/PO No. incident NAPP 2401641673

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	<u>Dump Truck</u>	
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____	TOP SOIL & CALICHE SALES	_____
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	QUANTITY	<u>10</u>
Gas Plant Waste	_____			TOP SOIL	CALICHE

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 10 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)David Byrd

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name Sen Tex Mex

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Driver's Name Domingo BaeraPrint Name Domingo BaeraPhone No. 432-955-3819Truck No. 59

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-18-24

SHIPMENT DATE

Domingo Baera

DRIVER'S SIGNATURE

11-18-24

DELIVERY DATE

Domingo Baera

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 58Site Name/ Halfway Facility / NM1-006

Permit No. \_\_\_\_\_

Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220Phone No. 575-392-6368NORM READINGS TAKEN? (Circle One) YES ☐ NO ☒PASS THE PAINT FILTER TEST? (Circle One) YES ☐ NO ☒If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☒

## TANK BOTTOMS

Feet \_\_\_\_\_ Inches \_\_\_\_\_

1st Gauge \_\_\_\_\_

2nd Gauge \_\_\_\_\_

Received \_\_\_\_\_

BS&amp;W/BBLS Received \_\_\_\_\_

Free Water \_\_\_\_\_

Total Received \_\_\_\_\_

I hereby certify that the above load material has been (circle one): ACCEPTED ☒ DENIED ☐ If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name David Byrd

Phone No. \_\_\_\_\_

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

## GENERATOR

NO. HW- 717264Generator Manifest # X+0

Generator Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin \_\_\_\_\_

Lease/Well \_\_\_\_\_

Name & No. PLU CVX JV PC # 11 HCounty Project D3C15-8221API No. 30-015-69768Rig Name & No. CS 1139821001AFE/PO No. incident NAPP 2401641673

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	<u>Dump Truck</u>	
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____	TOP SOIL & CALICHE SALES	_____
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	QUANTITY	<u>10</u>
Gas Plant Waste	_____			TOP SOIL	CALICHE

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)David Byrd

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name Semtex mex

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Driver's Name Domingo BalzaPrint Name Domingo BalzaPhone No. 132-955-3819Truck No. 59

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-18-24

SHIPMENT DATE

Domingo Balza

DRIVER'S SIGNATURE

11-18-24

DELIVERY DATE

Domingo Balza

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 78

Site Name/ Permit No.	<u>Halfway Facility / NM1-006</u>	Phone No.	<u>575-392-6368</u>
Address	<u>6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220</u>		

NORM READINGS TAKEN? (Circle One) YES ☐ NO ☒

PASS THE PAINT FILTER TEST? (Circle One) YES ☐ NO ☒

If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☒

## TANK BOTTOMS

Feet	Inches	BS&W/BBLs Received	BS&W (%)
_____	_____	Free Water	_____
_____	_____	Total Received	_____

I hereby certify that the above load material has been (circle one): ☒ ACCEPTED ☐ DENIED If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE





# NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Kent Retz

Phone No. \_\_\_\_\_

<b>GENERATOR</b>		NO. <u>HW-717405</u>
Generator Manifest # <u>XTO</u>	Location of Origin <u>PLU CVX JV PC# 11 H</u>	
Generator Name _____	Lease/Well _____	
Address _____	Name & No. <u>XTO 03C1558321</u>	
	County <u>Eddy</u>	
City, State, Zip _____	API No. <u>30-015-69768</u>	
Phone No. _____	Rig Name & No. <u>VAPP 2401641673</u>	
	AFE/PO No. <u>C.C. 1139821001</u>	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)			
Oil Based Muds _____	<b>NON-INJECTABLE WATERS</b>		<b>OTHER EXEMPT E&amp;P WASTE STREAMS</b>
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____		
Water Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____		
Water Based Cuttings _____	Produced Water (Non-Injectable) _____		
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____		
Tank Bottoms _____	<b>INTERNAL USE ONLY</b>		<b>TOP SOIL &amp; CALICHE SALES</b>
E&P Contaminated Soil <u>X</u>	Truck Washout (exempt waste) YES _____ NO <u>(X)</u>	QUANTITY _____	TOP SOIL _____ CALICHE _____
Gas Plant Waste _____			
WASTE GENERATION PROCESS: <input type="checkbox"/> DRILLING <input type="checkbox"/> COMPLETION <input type="checkbox"/> PRODUCTION <input type="checkbox"/> GATHERING LINES			

NON-EXEMPT E&P Waste/Service Identification and Amount	
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.	
Non-Exempt Other _____	*please select from <b>Non-Exempt Waste List</b> on back

DISPOSAL QUANTITY _____	B - BARRELS _____	L - LIQUID _____	<u>20</u> (Y - YARDS)	E - EACH _____
-------------------------	-------------------	------------------	-----------------------	----------------

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ **RCRA EXEMPT:** Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ **RCRA NON-EXEMPT:** Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

☐ **EMERGENCY NON-OILFIELD** Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE _____	DATE _____	SIGNATURE _____
---	------------	-----------------

<b>TRANSPORTER</b>	
Transporter's Name <u>Sem Tex Mex</u>	Driver's Name <u>Tad Curry</u>
Address _____	Print Name _____
Phone No. _____	Phone No. _____
Transporter Ticket # _____	Truck No. <u>62</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____	DRIVER'S SIGNATURE _____	DELIVERY DATE <u>11-22-24</u>	DRIVER'S SIGNATURE _____
---------------------	--------------------------	-------------------------------	--------------------------

TRUCK TIME STAMP	DISPOSAL FACILITY	RECEIVING AREA
IN: _____ OUT: _____	Name/No. <u>575-392-6368</u>	

Site Name/Permit No. <u>Halfway Facility / NM1-006</u>	Phone No. <u>575-392-6368</u>
Address <u>6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220</u>	

NORM READINGS TAKEN? (Circle One) YES _____ NO <u>(X)</u>	If YES, was reading > 50 micro roentgens? (Circle One) YES _____ NO _____
PASS THE PAINT FILTER TEST? (Circle One) YES _____ NO _____	

<b>TANK BOTTOMS</b>			
Feet _____	Inches _____	BS&W/BBLS Received _____	BS&W (%) _____
1st Gauge _____	2nd Gauge _____	Free Water _____	
Received _____		Total Received _____	

I hereby certify that the above load material has been (circle one): ☒ ACCEPTED ☐ DENIED

If denied, why? \_\_\_\_\_

NAME (PRINT) _____	DATE _____	TITLE _____	SIGNATURE _____
--------------------	------------	-------------	-----------------





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

Name Kent Rptz

Phone No. \_\_\_\_\_

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

## GENERATOR

NO. HW-719426Generator Manifest # XTOLocation of Origin  
Lease/WellPLUCVX JV PC 114

Generator Name \_\_\_\_\_

Name &amp; No.

XTO 03C1558321

Address \_\_\_\_\_

County

Edgy

City, State, Zip \_\_\_\_\_

API No.

30-015-69768

Phone No. \_\_\_\_\_

Rig Name &amp; No.

WAPP2401641673

AFE/PO No.

1159821001

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____
Tank Bottoms	_____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES
E&P Contaminated Soil	<u>X</u>	Truck Washout (exempt waste)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Gas Plant Waste	_____	QUANTITY	TOP SOIL CALICHE

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 205 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)
- ☐ EMERGENCY NON-OILFIELD Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name Sem Tex Mex

Driver's Name

Ted Curry

Address \_\_\_\_\_

Print Name

Phone No. \_\_\_\_\_

Phone No.

Transporter Ticket # \_\_\_\_\_

Truck No.

62 Betty

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 28

Site Name/  
Permit No. Halfway Facility / NM1-006

Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One) YES ☐ NO ☒

PASS THE PAINT FILTER TEST? (Circle One) YES ☐ NO ☒

If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☒

## TANK BOTTOMS

Feet	Inches	BS&W/BBLs Received	BS&W (%)
1st Gauge	_____	Free Water	_____
2nd Gauge	_____	Total Received	_____
Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## APPENDIX E

### Laboratory Analytical Reports & Chain of Custody Documentation

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

November 25, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU CVX JV PC 11

Enclosed are the results of analyses for samples received by the laboratory on 11/21/24 13:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/19/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 01 (H247125-01)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.30	
Toluene*	<0.050	0.050	11/22/2024	ND	2.19	109	2.00	3.62	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.18	109	2.00	4.12	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	6.47	108	6.00	3.89	
Total BTEX	<0.300	0.300	11/22/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/25/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	1.90	
DRO >C10-C28*	55.2	10.0	11/22/2024	ND	187	93.5	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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





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

**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/19/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 02 (H247125-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.30	
Toluene*	<0.050	0.050	11/22/2024	ND	2.19	109	2.00	3.62	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.18	109	2.00	4.12	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	6.47	108	6.00	3.89	
Total BTEX	<0.300	0.300	11/22/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/25/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	1.90	
DRO >C10-C28*	37.9	10.0	11/22/2024	ND	187	93.5	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/19/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 03 (H247125-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.30		
Toluene*	<0.050	0.050	11/22/2024	ND	2.19	109	2.00	3.62		
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.18	109	2.00	4.12		
Total Xylenes*	<0.150	0.150	11/22/2024	ND	6.47	108	6.00	3.89		
Total BTEX	<0.300	0.300	11/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/25/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	1.90	
DRO >C10-C28*	<10.0	10.0	11/22/2024	ND	187	93.5	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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\*=Accredited Analyte

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





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

**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/19/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 04 (H247125-04)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.30	
Toluene*	<0.050	0.050	11/22/2024	ND	2.19	109	2.00	3.62	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.18	109	2.00	4.12	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	6.47	108	6.00	3.89	
Total BTEX	<0.300	0.300	11/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/25/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	1.90	
DRO >C10-C28*	54.5	10.0	11/22/2024	ND	187	93.5	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/19/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 05 (H247125-05)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.30	
Toluene*	<0.050	0.050	11/22/2024	ND	2.19	109	2.00	3.62	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.18	109	2.00	4.12	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	6.47	108	6.00	3.89	
Total BTEX	<0.300	0.300	11/22/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/25/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	1.90	
DRO >C10-C28*	<10.0	10.0	11/22/2024	ND	187	93.5	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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



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

**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/19/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 06 (H247125-06)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.30	
Toluene*	<0.050	0.050	11/22/2024	ND	2.19	109	2.00	3.62	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.18	109	2.00	4.12	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	6.47	108	6.00	3.89	
Total BTEX	<0.300	0.300	11/22/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/25/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	1.90	
DRO >C10-C28*	<10.0	10.0	11/22/2024	ND	187	93.5	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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





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

**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/19/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 07 (H247125-07)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.30	
Toluene*	<0.050	0.050	11/22/2024	ND	2.19	109	2.00	3.62	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.18	109	2.00	4.12	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	6.47	108	6.00	3.89	
Total BTEX	<0.300	0.300	11/22/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/25/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	1.90	
DRO >C10-C28*	<10.0	10.0	11/22/2024	ND	187	93.5	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/19/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 08 (H247125-08)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.30		
Toluene*	<0.050	0.050	11/22/2024	ND	2.19	109	2.00	3.62		
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.18	109	2.00	4.12		
Total Xylenes*	<0.150	0.150	11/22/2024	ND	6.47	108	6.00	3.89		
Total BTEX	<0.300	0.300	11/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	11/25/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	1.90	
DRO >C10-C28*	36.5	10.0	11/22/2024	ND	187	93.5	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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



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

**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 09 (H247125-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.30		
Toluene*	<0.050	0.050	11/22/2024	ND	2.19	109	2.00	3.62		
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.18	109	2.00	4.12		
Total Xylenes*	<0.150	0.150	11/22/2024	ND	6.47	108	6.00	3.89		
Total BTEX	<0.300	0.300	11/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/25/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	1.90	
DRO >C10-C28*	<10.0	10.0	11/22/2024	ND	187	93.5	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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





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

**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/19/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 10 (H247125-10)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.30	
Toluene*	<0.050	0.050	11/22/2024	ND	2.19	109	2.00	3.62	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.18	109	2.00	4.12	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	6.47	108	6.00	3.89	
Total BTEX	<0.300	0.300	11/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/25/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	1.90	
DRO >C10-C28*	80.8	10.0	11/22/2024	ND	187	93.5	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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



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**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 11 (H247125-11)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.30	
Toluene*	<0.050	0.050	11/22/2024	ND	2.19	109	2.00	3.62	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.18	109	2.00	4.12	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	6.47	108	6.00	3.89	
Total BTEX	<0.300	0.300	11/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/25/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	1.90	
DRO >C10-C28*	<10.0	10.0	11/22/2024	ND	187	93.5	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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



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**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 12 (H247125-12)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.30	
Toluene*	<0.050	0.050	11/22/2024	ND	2.19	109	2.00	3.62	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.18	109	2.00	4.12	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	6.47	108	6.00	3.89	
Total BTEX	<0.300	0.300	11/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/25/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	1.90	
DRO >C10-C28*	<10.0	10.0	11/22/2024	ND	187	93.5	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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





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**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 13 (H247125-13)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.30	
Toluene*	<0.050	0.050	11/22/2024	ND	2.19	109	2.00	3.62	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.18	109	2.00	4.12	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	6.47	108	6.00	3.89	
Total BTEX	<0.300	0.300	11/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/25/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	1.90	
DRO >C10-C28*	<10.0	10.0	11/22/2024	ND	187	93.5	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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



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**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/19/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 14 (H247125-14)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.30	
Toluene*	<0.050	0.050	11/22/2024	ND	2.19	109	2.00	3.62	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.18	109	2.00	4.12	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	6.47	108	6.00	3.89	
Total BTEX	<0.300	0.300	11/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/25/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	1.90	
DRO >C10-C28*	<10.0	10.0	11/22/2024	ND	187	93.5	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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



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**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 15 (H247125-15)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.79		
Toluene*	<0.050	0.050	11/22/2024	ND	2.36	118	2.00	3.18		
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.25	112	2.00	3.02		
Total Xylenes*	<0.150	0.150	11/22/2024	ND	7.06	118	6.00	2.63		
Total BTEX	<0.300	0.300	11/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/25/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	7.50	
DRO >C10-C28*	10.6	10.0	11/22/2024	ND	196	98.1	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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





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**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 16 (H247125-16)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.79	
Toluene*	<0.050	0.050	11/22/2024	ND	2.36	118	2.00	3.18	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.25	112	2.00	3.02	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	7.06	118	6.00	2.63	
Total BTEX	<0.300	0.300	11/22/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/25/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	7.50	
DRO >C10-C28*	47.5	10.0	11/22/2024	ND	196	98.1	200	6.28	
EXT DRO >C28-C36	12.6	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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



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

**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 17 (H247125-17)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.79	
Toluene*	<0.050	0.050	11/22/2024	ND	2.36	118	2.00	3.18	
Ethylbenzene*	0.051	0.050	11/22/2024	ND	2.25	112	2.00	3.02	GC-NC1
Total Xylenes*	0.362	0.150	11/22/2024	ND	7.06	118	6.00	2.63	GC-NC1
Total BTEX	0.413	0.300	11/22/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B			mg/kg					Analyzed By: CT	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/25/2024	ND	432	108	400	0.00	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	7.50	
DRO >C10-C28*	84.5	10.0	11/22/2024	ND	196	98.1	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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



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**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 18 (H247125-18)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.79	
Toluene*	<b>0.058</b>	0.050	11/22/2024	ND	2.36	118	2.00	3.18	GC-NC1
Ethylbenzene*	<b>0.328</b>	0.050	11/22/2024	ND	2.25	112	2.00	3.02	GC-NC1
Total Xylenes*	<b>2.34</b>	0.150	11/22/2024	ND	7.06	118	6.00	2.63	GC-NC1
Total BTEX	<b>2.72</b>	0.300	11/22/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 149 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>272</b>	16.0	11/25/2024	ND	432	108	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*	<b>78.4</b>	10.0	11/22/2024	ND	204	102	200	7.50	
DRO >C10-C28*	<b>817</b>	10.0	11/22/2024	ND	196	98.1	200	6.28	
EXT DRO >C28-C36	<b>160</b>	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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





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

**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 19 (H247125-19)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.79	
Toluene*	<0.050	0.050	11/22/2024	ND	2.36	118	2.00	3.18	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.25	112	2.00	3.02	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	7.06	118	6.00	2.63	
Total BTEX	<0.300	0.300	11/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/25/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	7.50	
DRO >C10-C28*	<10.0	10.0	11/22/2024	ND	196	98.1	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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



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**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 01 (H247125-20)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.79	
Toluene*	<0.050	0.050	11/22/2024	ND	2.36	118	2.00	3.18	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.25	112	2.00	3.02	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	7.06	118	6.00	2.63	
Total BTEX	<0.300	0.300	11/22/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	11/25/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	7.50	
DRO >C10-C28*	<10.0	10.0	11/22/2024	ND	196	98.1	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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



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**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 02 (H247125-21)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.79	
Toluene*	<0.050	0.050	11/22/2024	ND	2.36	118	2.00	3.18	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.25	112	2.00	3.02	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	7.06	118	6.00	2.63	
Total BTEX	<0.300	0.300	11/22/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/25/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/25/2024	ND	204	102	200	7.50	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	196	98.1	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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





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**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 03 (H247125-22)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.79	
Toluene*	<0.050	0.050	11/22/2024	ND	2.36	118	2.00	3.18	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.25	112	2.00	3.02	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	7.06	118	6.00	2.63	
Total BTEX	<0.300	0.300	11/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/25/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	7.50	
DRO >C10-C28*	<10.0	10.0	11/22/2024	ND	196	98.1	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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



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**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 04 (H247125-23)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.79	
Toluene*	<0.050	0.050	11/22/2024	ND	2.36	118	2.00	3.18	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.25	112	2.00	3.02	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	7.06	118	6.00	2.63	
Total BTEX	<0.300	0.300	11/22/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/25/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	7.50	
DRO >C10-C28*	<10.0	10.0	11/22/2024	ND	196	98.1	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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



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**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 05 (H247125-24)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.79		
Toluene*	<0.050	0.050	11/22/2024	ND	2.36	118	2.00	3.18		
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.25	112	2.00	3.02		
Total Xylenes*	<0.150	0.150	11/22/2024	ND	7.06	118	6.00	2.63		
Total BTEX	<0.300	0.300	11/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/25/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	7.50	
DRO >C10-C28*	<10.0	10.0	11/22/2024	ND	196	98.1	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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\*=Accredited Analyte

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





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

**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 06 (H247125-25)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.79		
Toluene*	<0.050	0.050	11/22/2024	ND	2.36	118	2.00	3.18		
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.25	112	2.00	3.02		
Total Xylenes*	<0.150	0.150	11/22/2024	ND	7.06	118	6.00	2.63		
Total BTEX	<0.300	0.300	11/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/25/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	7.50	
DRO >C10-C28*	<10.0	10.0	11/22/2024	ND	196	98.1	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 71.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 52.3 % 49.1-148

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



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

**Analytical Results For:**

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

Received: 11/21/2024  
Reported: 11/25/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO - 32.205624-103.904817

Sampling Date: 11/20/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 07 (H247125-26)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2024	ND	2.30	115	2.00	3.79	
Toluene*	<0.050	0.050	11/22/2024	ND	2.36	118	2.00	3.18	
Ethylbenzene*	<0.050	0.050	11/22/2024	ND	2.25	112	2.00	3.02	
Total Xylenes*	<0.150	0.150	11/22/2024	ND	7.06	118	6.00	2.63	
Total BTEX	<0.300	0.300	11/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/25/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2024	ND	204	102	200	7.50	
DRO >C10-C28*	<10.0	10.0	11/22/2024	ND	196	98.1	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	11/22/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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

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

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### Notes and Definitions

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

---

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

---

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





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-3

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

Company Name: Ensolum

Project manager: Tacoma Morrissey

Address: 3122 National Parks Hwy

City: Carlsbad State: NM ZIP: 88220

Phone #: 337-257-8307

Project #: 03C1558321

Project Name: PLU CVX JV PC 11

Project Location: 32.205624, -103.904817

Sampler Name: Uriel Santillana

FOR LAB USE ONLY

Lab I.D.

## BILL TO

P.O. #:

Company: XTO Energy

Attn: Cotton Brown

Address: 3104 E Greene St.

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

## ANALYSIS REQUEST

Sample I.D.

H24 7135

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	DATE	TIME	CHLORIDE TEST									
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE													
FS02	C	1			X			X	11/19/24	1317	X	X	X							
FS02										1320										
FS03										1322										
FS04										1347										
FS05										1351										
FS06										1353										
FS07										1356										
FS08										1440										
FS09										1335										
FS10										1500										

FOR LAB USE ONLY: Lab I.D. (G)RAB OR (C)OMP. # CONTAINERS MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER: ACID/BASE, ICE / COOL, OTHER: DATE, TIME. CHLORIDE TEST. Verbal Result: Yes No. Add'l Phone #: timorrissey@ensolum.com kthomason@ensolum.com usantillana@ensolum.com

Sighting By: U.S. Army

Date: 11-21-24

Received By: [Signature]

Sighting By: [Signature]

Date: 11-21-24

Received By: [Signature]

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

Observed Temp. °C  
 Corrected Temp. °C

2.9

Sample Condition  
 Cool Intact  
☒ Yes ☐ No

CHECKED BY: (Initials)

Turnaround Time: Rush ☒ Standard ☐  
 Backlogs (only) Sample Condition  
 Cool Intact Observed Temp. °C  
 Thermometer ID #140  
 Correction Factor -0.6°C

Yes ☐ No ☐  
 Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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



## 2-3

Page 30 of 31

Company Name: Ensolum							<b>BILL TO</b>							ANALYSIS REQUEST						
Project manager: Tacoma Morrissey							P.O. #:													
Address: 3122 National Parks Hwy							Company: XTO Energy													
City: Carlsbad							Attn: Colton Brown													
Phone #: 337-257-8307							State: NM ZIP: 88220							Address: 3104 E Greene St.						
Project #:							03C1558321							City: Carlsbad						
Project Name:							PLU CVX JV PC 11							State: NM Zip: 88220						
Project Location:							32.205624, -103.904817							Phone #:						
Sampler Name:							Uriel Santillana							Fax #:						
Lab I.D.							PRESERV.							SAMPLING						
Sample I.D.							MATRIX							CHLORIDES TPT BTEX						
							(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :													
H347135							DATE							TIME						
F311							11/20/24							1338						
F312							11/20/24							1342						
F313							11/20/24							1344						
F314							11/19/24							1225						
F315							11/20/24							855						
F316							11/20/24							900						
F317														1412						
F318														1335						
F319														915						
F320														1010						
F321																				
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Relinquished By: [Signature]							Date: 11-21-24							Received By: [Signature]						
Time: 1:30																				
Date: 11-21-24																				
Relinquished By: [Signature]							Date: 11-21-24							Received By: [Signature]						
Time: 1:30																				
Delivered By: (Circle One) Carrier - UPS - Bus - Other:							Observed Temp. °C Corrected Temp. °C							Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
8.9							8.3							A.P.						
CHECKED BY: (Initials)																				
Turnaround Time: Standard <input type="checkbox"/> Bacteria (only) Sample Condition																				
Thermometer ID #140							Cool Intact <input type="checkbox"/> Observed Temp. °C													
Correction Factor -0.6°C																				
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No							Add'l Phone #:													
tmorrissey@ensolum.com kthomason@ensolum.com usantillana@ensolum.com																				
REMARKS: Incident ID: nAPP2401641673																				





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3-3

Company Name: Ensolum

Project manager: Tacoma Morrissey  
Address: 3122 National Parks Hwy  
City: Carlsbad State: NM ZIP: 88220

Phone #: 337-257-8307

Project #: 03C1558321

Project Name: PLU CVX JV PC 11

Project Location: 32.205624, -103.904817

Sampler Name: Uriel Santillana

Lab I.D.

**BILL TO**

**ANALYSIS REQUEST**

P.O. #: \_\_\_\_\_  
Company: XTO Energy  
Attn: Colton Brown  
Address: 3104 E Greene St.  
City: Carlsbad State: NM Zip: 88220  
Phone #: \_\_\_\_\_  
Fax #: \_\_\_\_\_

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	C H L O R I N E S T P H X									
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE												
11247135	SW02	4			X			11/20/24	1515	X	X	X							
	SW03																		
	SW04																		
	SW05																		
	SW06																		
	SW07																		

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Relinquished By: \_\_\_\_\_

Date: 11-21-24

Received By: \_\_\_\_\_

Verbal Result: ☐ Yes ☐ No

Add'l Phone #: \_\_\_\_\_

Relinquished By: \_\_\_\_\_

Date: 11-21-24

Received By: \_\_\_\_\_

REMARKS: Incident ID: NAPP2401641673

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

Observed Temp. °C  
Corrected Temp. °C

Sample Condition  
Cool Intact ☒ Yes ☐ No

CHECKED BY: (Initials)

Turnaround Time: Standard ☐ Rush ☒ Backlog (only) Sample Condition  
Cool Intact ☐ Observed Temp. °C  
Thermometer ID #140  
Correction Factor -0.6°C

☐ Yes ☐ No  
☐ Yes ☐ No  
Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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December 20, 2024

TACOMA MORRISSEY

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU CVX JV PC 11

Enclosed are the results of analyses for samples received by the laboratory on 12/19/24 10:33.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 12/19/2024  
Reported: 12/20/2024  
Project Name: PLU CVX JV PC 11  
Project Number: 03C1558321  
Project Location: XTO 32.205624-103.904817

Sampling Date: 12/19/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 18 2.5' (H247667-01)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2024	ND	2.05	103	2.00	1.36	
Toluene*	<0.050	0.050	12/19/2024	ND	1.95	97.6	2.00	2.63	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.97	98.3	2.00	3.68	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	5.91	98.6	6.00	4.19	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/19/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	206	103	200	5.43	
DRO >C10-C28*	41.8	10.0	12/20/2024	ND	185	92.5	200	4.91	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

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

---

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

Celey D. Keene, Lab Director/Quality Manager





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 425539

QUESTIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  425539
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401641673
Incident Name	NAPP2401641673 PLU CVX JV PC 11 @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2218240516] XTO PERMIAN MIDSTREAM NGGS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PLU CVX JV PC 11
Date Release Discovered	01/08/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for 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: 2 BBL   Recovered: 0 BBL   Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Cause: Corrosion   Flow Line - Production   Natural Gas Vented   Released: 320 MCF   Recovered: 0 MCF   Lost: 320 MCF.
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.

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 425539

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 425539
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 01/28/2025
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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 425539

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  425539
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 300 and 500 (ft.)
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 ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	3600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	16510
GRO+DRO (EPA SW-846 Method 8015M)	14910
BTEX (EPA SW-846 Method 8021B or 8260B)	412
Benzene (EPA SW-846 Method 8021B or 8260B)	10.4
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	03/05/2024
On what date will (or did) the final sampling or liner inspection occur	12/19/2024
On what date will (or was) the remediation complete(d)	12/20/2024
What is the estimated surface area (in square feet) that will be reclaimed	3770
What is the estimated volume (in cubic yards) that will be reclaimed	500
What is the estimated surface area (in square feet) that will be remediated	3770
What is the estimated volume (in cubic yards) that will be remediated	500
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 425539

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  425539
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 01/28/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 425539

QUESTIONS (continued)

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  425539
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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



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Action 425539

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 425539
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	428949
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/10/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
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	3770
What was the total volume (cubic yards) remediated	500
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	3770
What was the total volume (in cubic yards) reclaimed	500
Summarize any additional remediation activities not included by answers (above)	Site assessment and excavation activities were conducted at the Site to address the January 8, 2024, release. 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 is required.
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 01/28/2025

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Action 425539

QUESTIONS (continued)

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  425539
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 425539

CONDITIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  425539
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2401641673 PLU CVX JV PC 11, thank you. This Remediation Closure Report is approved.	2/6/2025