



December 6, 2024

**New Mexico Oil Conservation Division**

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

**Re: Deferral Request Addendum  
C 17 State #001H  
Incident Number NRM2003533617  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of WPX Energy Production Company, LP (WPX), has prepared this *Deferral Request* to document assessment and soil sampling activities at the C 17 State #001H (Site) in Unit A, Section 17, Township 23 South, Range 27 East, in Eddy County, New Mexico (Figure 1). The Site (32.308862°, -104.205363°) is associated with oil and gas exploration and production operations on State Trust Land manage by the New Mexico State Land Office (NMSLO).

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water within a lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Devon is submitting this *Deferral Request Addendum (DRA)*, describing Site assessment and delineation activities that have occurred and requesting deferral of final remediation for Incident Number NRM2003533617 until the Site is reconstructed and/or the well pad is abandoned.

**BACKGROUND**

On December 19, 2019, a failure in a produced water line resulted in the release of approximately 35 barrels (bbls) of produced water into the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; all 35 bbls of released produced water were recovered from within the lined containment. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on December 30, 2019, and subsequently the release was assigned Incident Number NRM2003533617. On January 14, 2020, a liner integrity inspection was conducted by LT Environmental, Inc (LTE) personnel following fluid recovery. Upon inspection, the liner was determined to be insufficient, and seven holes were located in the southwest and northeast corners of the lined containment. On January 30, 2020, LTE collected surface soil samples at the location of each hole in the liner (SS01 through SS07). On August 21, 2024, Ensolum personnel collected vertical samples at a depth of 1-foot below ground surface (bgs) under the liner (BH01 and BH02). On September 26, 2024, Ensolum personnel collected lateral samples around the containment (SS08 through SS11). The assessment area was on pad and so a cultural resource survey was not conducted.

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On November 8, 2024, Ensolum submitted a *Deferral Request* (DR) to the New Mexico Oil Conservation Division (NMOCD); however, the DR was denied by the NMOCD for the following reasons:

- *The Deferral Request is Denied. This is an old legacy release that occurred in December 2019. Sampling to a depth of 1 foot is not sufficient to verify chlorides. Chlorides most likely moved down the soil column over the years. The OCD requests the two boreholes (BH01 and BH02) be advanced in 1-foot increments down to a depth of 4 feet to verify chlorides.*

This DRA addresses NMOCD's concerns regarding additional delineation sampling around the area of requested deferral and visual evidence of the liner repair has been included in the photographic log (See Appendix A).

## SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP 04044 POD1 with a depth to water measurement of 150 feet bgs. The well is located 0.77 miles northeast of the Site and the most recent documented water level measurement was collected on May 16, 2017. All wells used for depth to groundwater determinations are depicted on Figure 1 and the referenced well records are included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 0.8 miles southeast 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 underlain by unstable geology (high karst potential designation area). Site receptors are identified on Figure 1.

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

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

## DELINEATION ACTIVITIES

Following the *Deferral Request* denial from NMOCD, Ensolum arrived on the Site on November 25, 2024, to conduct additional delineation activities at the two boreholes (BH01 and BH02), were located in the northeast and southwest corners in the locations of the tears in the damaged liner. The boreholes were advanced via backpack drill to a depth of 4 feet bgs. Discrete delineation soil samples were collected from the boreholes. Six soil samples from boreholes BH01 and BH02 were submitted for laboratory analysis at 2 feet, 3 feet, and 4 feet bgs. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted in Figure 2. Photographic

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documentation is included in Appendix A. Field screening results and observations from the borehole were logged on lithologic/soil sampling logs, which are included in Appendix C.

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 Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): 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

Laboratory analytical results for the vertical delineation soil samples collected from boreholes BH01 and BH02 indicated concentrations of all COCs were compliant with Site Closure Criteria in boreholes BH01 and BH02 at 2 feet, 3 feet, and 4 feet bgs. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

## DEFERRAL REQUEST

WPX is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines within the lined containment. Impacted soil is limited to the area immediately beneath the lined containment and active production equipment, where remediation would require a major facility deconstruction.

Impacted soil remaining in place beneath the liner, which is delineated vertically by delineation soil samples from boreholes (BH01 and BH02), collected at a terminal depth of 4 feet bgs. The release was defined laterally by surface soil samples SS08 through SS11, collected at the ground surface. A maximum of 365 cubic yards of chloride and TPH-impacted soil remains in place beneath the liner assuming a maximum 1-foot depth based on the delineation soil samples listed above. Impacted soil volumes estimate include waste-containing soil volumes to be addressed through reconstruction of the containment or final pad reclamation. The area of deferment is depicted on Figure 3.

WPX does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be 150 feet bgs, the release was contained laterally by the lined containment, and the impacted soil remaining in place is limited to the area immediately beneath the liner. The liner has been repaired by WPX and will restrict future vertical migration of residual impacts and any interactions with humans and/or wildlife.

Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, WPX requests deferral of final remediation for Incident Number NRM2003533617 until final reclamation of the well pad or major construction, whichever comes first. Remedial actions completed to date have been protective of human health, the environment, and groundwater and deferment of impacted soil beneath the lined containment appears to be equally protective and warranting deferment.

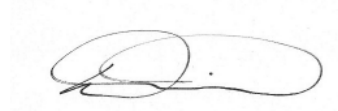
WPX Energy Permian, LLC  
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If you have any questions or comments, please contact Ms. Ashley Giovengo at (575) 988-0055 or [agiovengo@ensolum.com](mailto:agiovengo@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Ashely Giovengo  
Senior Scientist



Daniel R. Moir, PG (licensed in WY & TX)  
Senior Managing Geologist

cc: Jim Raley, WPX  
New Mexico State Land Office

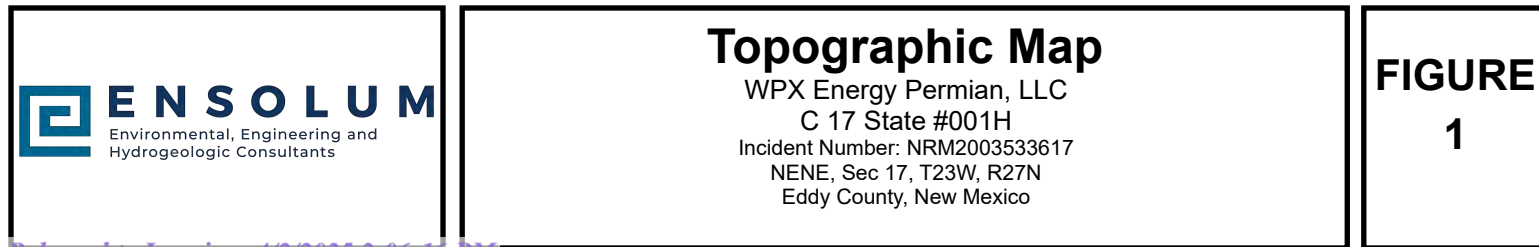
Appendices:

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

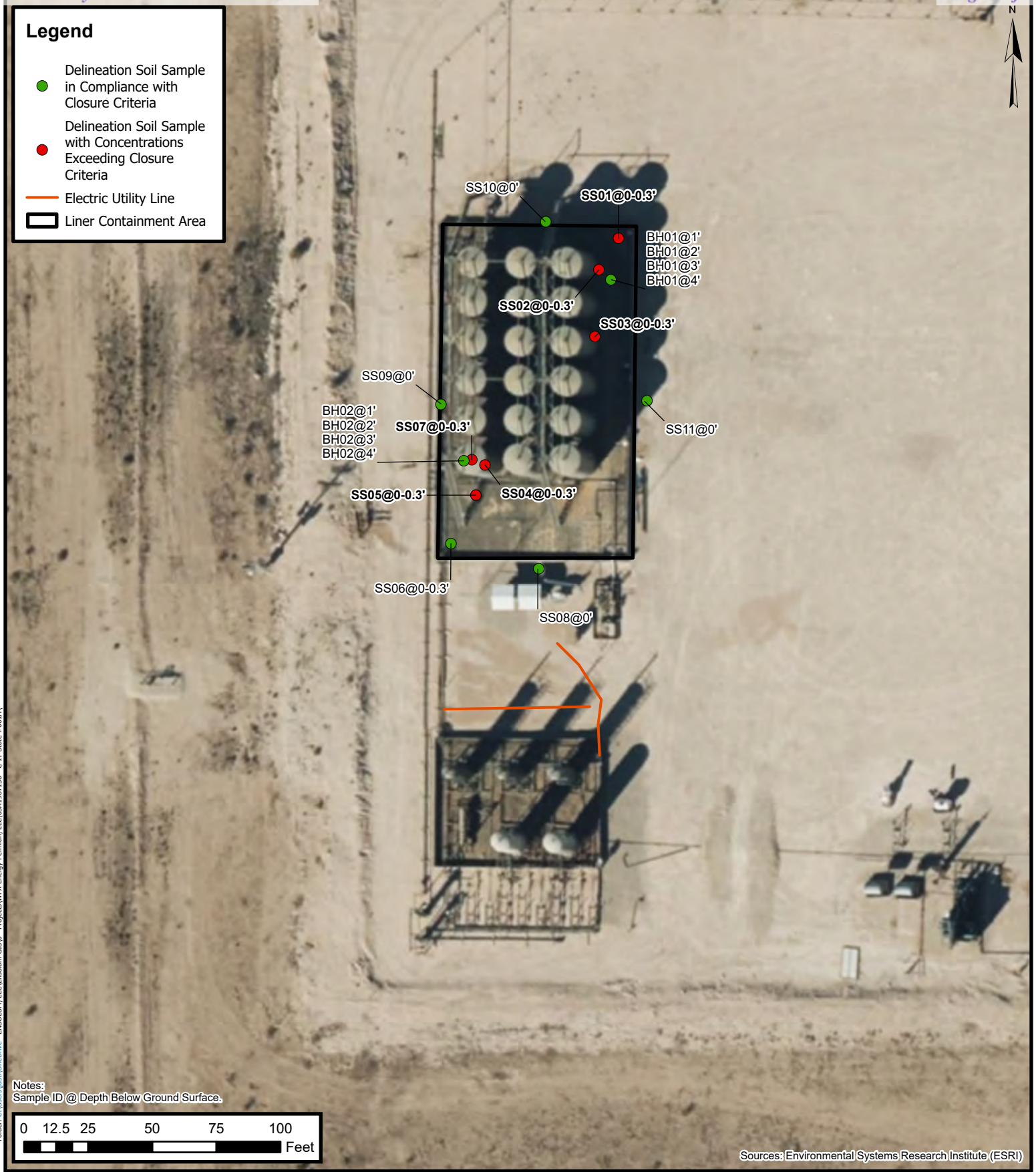




FIGURES





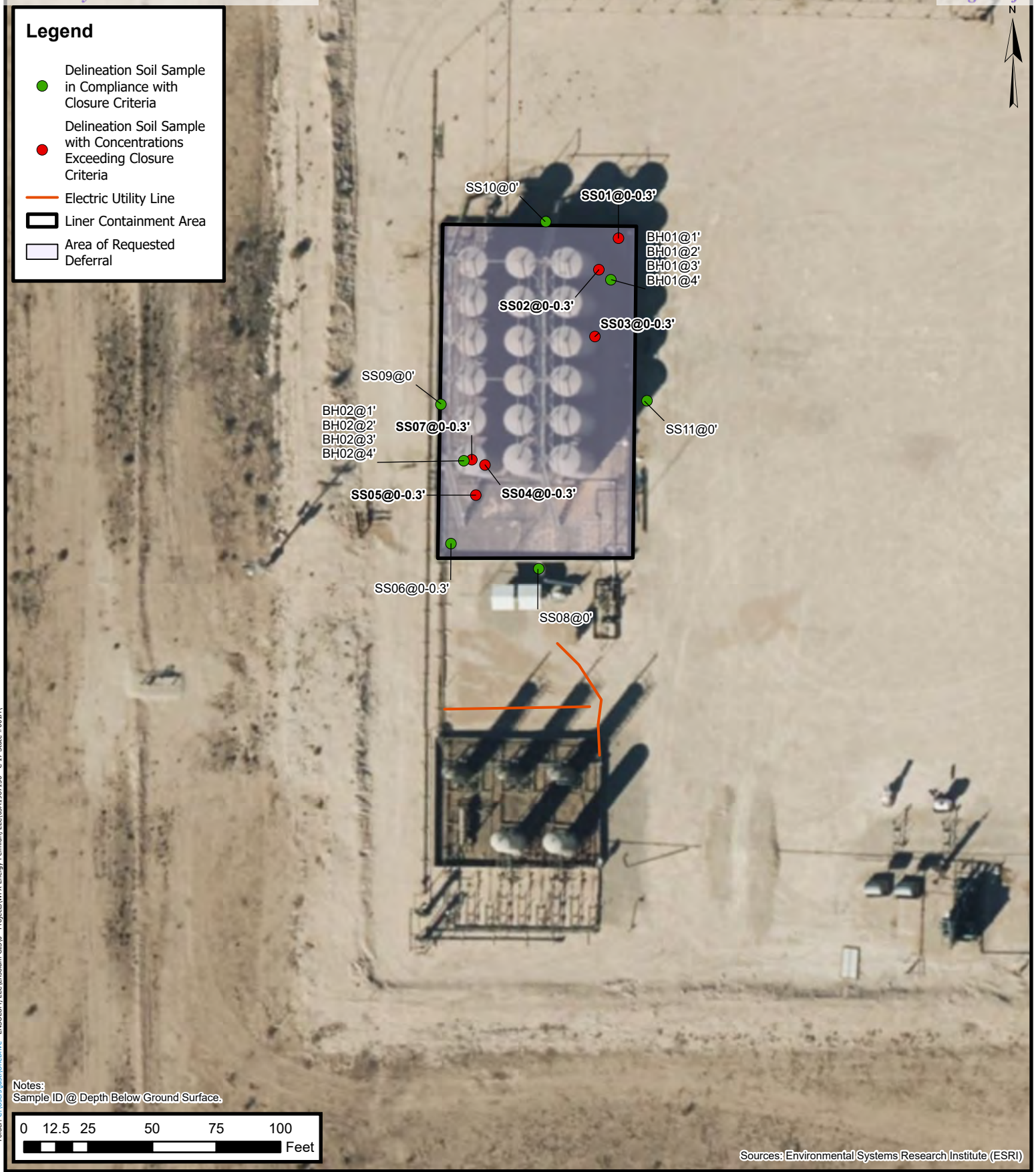


## Delineation Soil Sample Locations

WPX Energy Permian, LLC  
C 17 State #001H  
Incident Number: NRM2003533617  
Unit A, Section 17, T 23S, R 27E  
Eddy County, New Mexico

**FIGURE**  
**2**





## Area of Requested Deferral

WPX Energy Permian, LLC  
C 17 State #001H  
Incident Number: NRM2003533617  
Unit A, Section 17, T 23S, R 27E  
Eddy County, New Mexico

FIGURE

3



TABLES

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 C 17 State #001H  
 WPX Energy Permian, LLC  
 Eddy County, New Mexico

Sample Designation	Date	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)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
<b>Delineation Soil Samples</b>										
SS01	1/30/2020	0-0.3	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	<b>3,620</b>
SS02	1/30/2020	0-0.3	<0.00198	<0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	<b>4,030</b>
SS03	1/30/2020	0-0.3	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	<b>1,040</b>
SS04	1/30/2020	0-0.3	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	<b>3,030</b>
SS05	1/30/2020	0-0.3	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	<b>2,310</b>
SS06	1/30/2020	0-0.3	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	177
SS07	1/30/2020	0-0.3	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	<b>8,910</b>
SS08	9/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	296
SS09	9/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	155
SS10	9/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS11	9/26/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	129
BH01	8/21/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH01	11/25/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	170
BH01	11/25/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	110
BH01	11/25/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	43.2
BH02	8/21/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	64.4
BH02	11/25/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH02	11/25/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	106
BH02	11/25/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	42.5

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

&lt;: Laboratory Analytical result is less than reporting limit

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

\* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes





## APPENDIX A

### Photographic Log

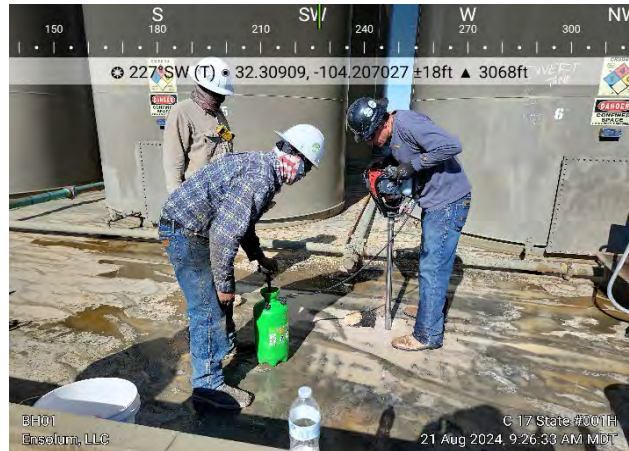
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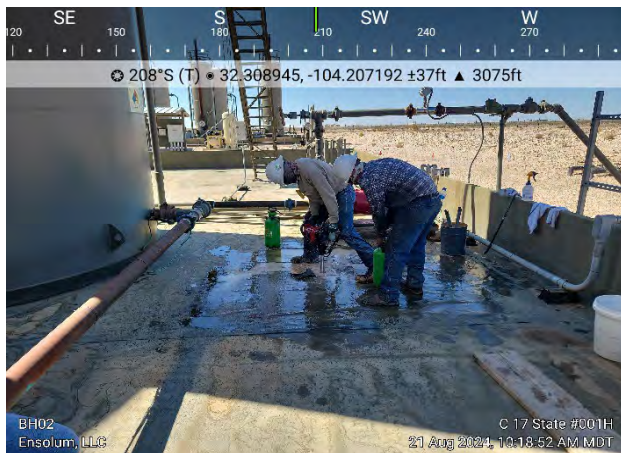
**Photographic Log**  
 WPX Energy Permian, LLC  
 C 17 State #001H  
 NRM2003533617



Photograph 1  
 Date: 7/5/2022  
 Description: Containment  
 View: North



Photograph 2  
 Date: 8/21/2024  
 Description: Vertical Delineation  
 View: West



Photograph 3  
 Date: 8/21/2024  
 Description: Vertical Delineation  
 View: South



Photograph 4  
 Date: 8/21/2024  
 Description: Liner repair  
 View: South



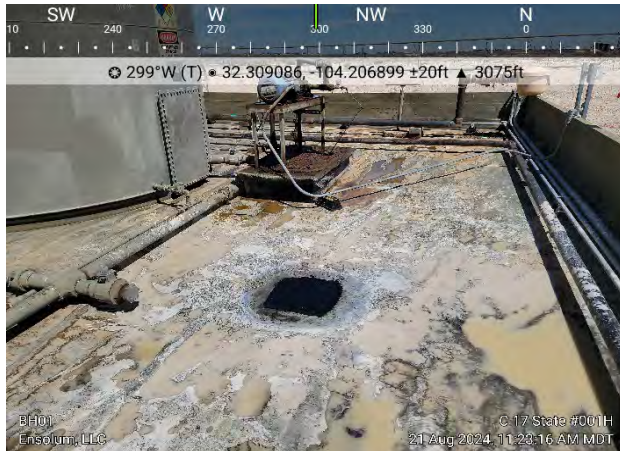


## Photographic Log

WPX Energy Permian, LLC

C 17 State #001H

NRM2003533617



Photograph 5

Date: 8/21/2024

Description: Liner repair

View: North

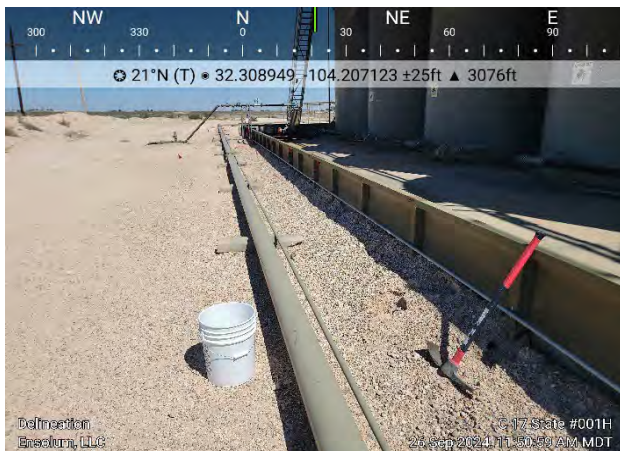


Photograph 6

Date: 9/26/2024

Description: Lateral delineation

View: Southwest



Photograph 7

Date: 9/26/2024

Description: Lateral delineation

View: North



Photograph 8

Date: 9/26/2024

Description: Lateral delineation

View: West





## Photographic Log

WPX Energy Permian, LLC

C 17 State #001H

NRM2003533617



Photograph 9 Date: 11/25/2024  
Description: BH01 delineation  
View: Northwest



Photograph 10 Date: 11/25/2024  
Description: BH02 delineation  
View: Southeast



Photograph 11 Date: 11/25/2024  
Description: BH01 liner patch  
View: Northwest



Photograph 12 Date: 11/25/2024  
Description: BH02 liner patch  
View: Southeast



## APPENDIX B

### Referenced Well Records

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File No. **C-4044****NEW MEXICO OFFICE OF THE STATE ENGINEER**
**WR-07 APPLICATION FOR PERMIT TO DRILL**  
**A WELL WITH NO WATER RIGHT**


(check applicable box):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>

Purpose:	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input checked="" type="checkbox"/> Exploratory Well (Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input type="checkbox"/> Other(Describe):
<input type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

☐ Temporary Request - Requested Start Date: Requested End Date:

Plugging Plan of Operations Submitted? ☐ Yes ☒ No

**1. APPLICANT(S)**

Name: Scott and Valerie Branson	Name:
Contact or Agent: check here if Agent <input checked="" type="checkbox"/>	Contact or Agent: check here if Agent <input type="checkbox"/>
Mstapleton, LLC	
Mailing Address: 910 W Pierce St # 138	Mailing Address:
City: Carlsbad	City:
State: Zip Code: NM 88220	State: Zip Code:
Phone: 575-706-5659 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell	Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell
Phone (Work):	Phone (Work):
E-mail (optional): mikeale2@gmail.com	E-mail (optional):

FOR OSE INTERNAL USE

Application for Permit, Form WR-07, Rev 11/17/16

File No.: <b>C-4044</b>	Trn. No.: <b>605683</b>	Receipt No.:
Trans Description (optional): <b>POD 1</b>		
Sub-Basin: <b>CVB</b>	PCW/LOG Due Date: <b>4-30-18</b>	

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**2. WELL(S)** Describe the well(s) applicable to this application.

**Location Required:** Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).

District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

- ☐ NM State Plane (NAD83) (Feet)  
☐ NM West Zone  
☐ NM East Zone  
☐ NM Central Zone

- ☐ UTM (NAD83) (Meters)  
☐ Zone 12N  
☐ Zone 13N

- ☒ Lat/Long (WGS84) (to the nearest 1/10<sup>th</sup> of second)

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
C-4044POD1	104*11' 52.35"	32*19' 2.85"	SW/4 NE/4 SW/4 section 09 T -23S R-27E

**NOTE:** If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)

Additional well descriptions are attached: ☐ Yes ☐ No If yes, how many \_\_\_\_\_

Other description relating well to common landmarks, streets, or other:

Well is on land owned by: Scott and Valerie Branson

**Well Information:** NOTE: If more than one (1) well needs to be described, provide attachment. Attached? ☐ Yes ☒ No  
 If yes, how many \_\_\_\_\_

Approximate depth of well (feet): 300

Outside diameter of well casing (inches): 8"

Driller Name: Mike Carter

Driller License Number: WD-1229

**3. ADDITIONAL STATEMENTS OR EXPLANATIONS**

the well will be test pumped for 36 hours then capped

FOR OSE INTERNAL USE

Application for Permit. Form WR-07

File No.:

C-4044

Trn No.:

605683

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**4. SPECIFIC REQUIREMENTS:** The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:


<b>Exploratory:</b> <input checked="" type="checkbox"/> Include a description of any proposed pump test, if applicable.	<b>Pollution Control and/or Recovery:</b> <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	<b>Construction De-Watering:</b> <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of.	<b>Mine De-Watering:</b> <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
<b>Monitoring:</b> <input type="checkbox"/> Include the reason for the monitoring well, and, <input type="checkbox"/> The duration of the planned monitoring.	<b>Ground Source Heat Pump:</b> <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.		

#### ACKNOWLEDGEMENT

I, We (name of applicant(s)), Mike Stapleton, agent for the applicants

Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.



Applicant Signature

Applicant Signature

#### ACTION OF THE STATE ENGINEER

This application is:

☒ approved ☐ partially approved ☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 13<sup>th</sup> day of April, 20 17, for the State Engineer,

Tom Blaine, P.E.

State Engineer

By:

Signature

Print

Title:

Juan Hernandez, Engr Specialist Supervisor

Print

FOR OSE INTERNAL USE

Application for Permit. Form WR-07

File No.:

C-4044

Trn No.:

605683

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NEW MEXICO STATE ENGINEER OFFICE  
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 1A Depth of the well shall not exceed the thickness of the valley fill.
- 4 No water shall be appropriated and beneficially used under this permit.
- 6 The well shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 10 days.
- 7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated.
- C Driller's well record must be filed with the State Engineer within 20 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon request.
- C2 No water shall be diverted from this well except for testing purposes which shall not exceed ten (10) cumulative days, and well shall be plugged or capped on or before , unless a permit to use water from this well is acquired from the Office of the State Engineer.
- G If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.

Trn Desc: C 04044 POD1

File Number: C 04044

Trn Number: 605683

page: 1

**NEW MEXICO STATE ENGINEER OFFICE  
PERMIT TO EXPLORE**

**SPECIFIC CONDITIONS OF APPROVAL (Continued)**

- P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between geologic zones.
- Q The State Engineer retains jurisdiction over this permit.
- R Pursuant to section 72-8-1 NMSA, the permittee shall allow the State Engineer and his representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.
- LOG The Point of Diversion C 04044 POD1 must be completed and the Well Log filed on or before 04/30/2018.

IT IS THE PERMITTEES RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

SHOULD THE PERMITTEE CHANGE THE PURPOSE OF USE TO OTHER THAN MONITORING PURPOSES, AN APPLICATION SHALL BE ACQUIRED FROM THE OFFICE OF THE STATE ENGINEER.

**ACTION OF STATE ENGINEER**

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 04/03/2017	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 13<sup>th</sup> day of Apr A.D., 2017

Tom Blaine, P.E., State Engineer

By: \_\_\_\_\_

Juan Hernandez

Trn Desc: C 04044 POD1

File Number: C 04044

Trn Number: 605683

page: 2

Tom Blaine, P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

**STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 605683  
File Nbr: C 04044

Apr. 13, 2017

MSTAPLETON LLC  
SCOTT BRANSON  
VALERIE BRANSON  
910 W PIERCE ST #138  
CARLSBAD, NM 88220

Greetings:

Enclosed is your copy of the above numbered permit that has been approved subject to the conditions set forth on the approval page. In accordance with the conditions of approval, the well can only be tested for 10 cumulative days, and the well is to be plugged on or before 04/30/2018, unless a permit to use the water is acquired from this office.

A Well Record & Log (OSE Form wr-20) shall be filed in this office within twenty (20) days after completion of drilling, but no later than 04/30/2018.

Appropriate forms can be downloaded from the OSE website [www.ose.state.nm.us](http://www.ose.state.nm.us) or will be mailed upon request.

Sincerely,

A handwritten signature in dark ink, appearing to read "JH", positioned above the printed name of Juan Hernandez.

Juan Hernandez  
(575) 622-6521

Enclosure

explore

**Locator Tool Report****General Information:**

Application ID: 29                      Date: 04-11-2017                      Time: 12:58:36

WR File Number: C 4044 P0D1  
Purpose: OTHER

Applicant First Name: SCOTT & VALERIE BRANSON  
Applicant Last Name: C/O MSTAPLETON LLC

GW Basin: CARLSBAD  
County: EDDY

Critical Management Area Name(s): NONE  
Special Condition Area Name(s): NONE  
Land Grant Name: NON GRANT

**PLSS Description (New Mexico Principal Meridian):**

SW 1/4 of NE 1/4 of SW 1/4 of Section 09, Township 23S, Range 27E.

**Coordinate System Details:****Geographic Coordinates:**

Latitude: 32 Degrees 19 Minutes 2.9 Seconds N  
Longitude: 104 Degrees 11 Minutes 52.4 Seconds W

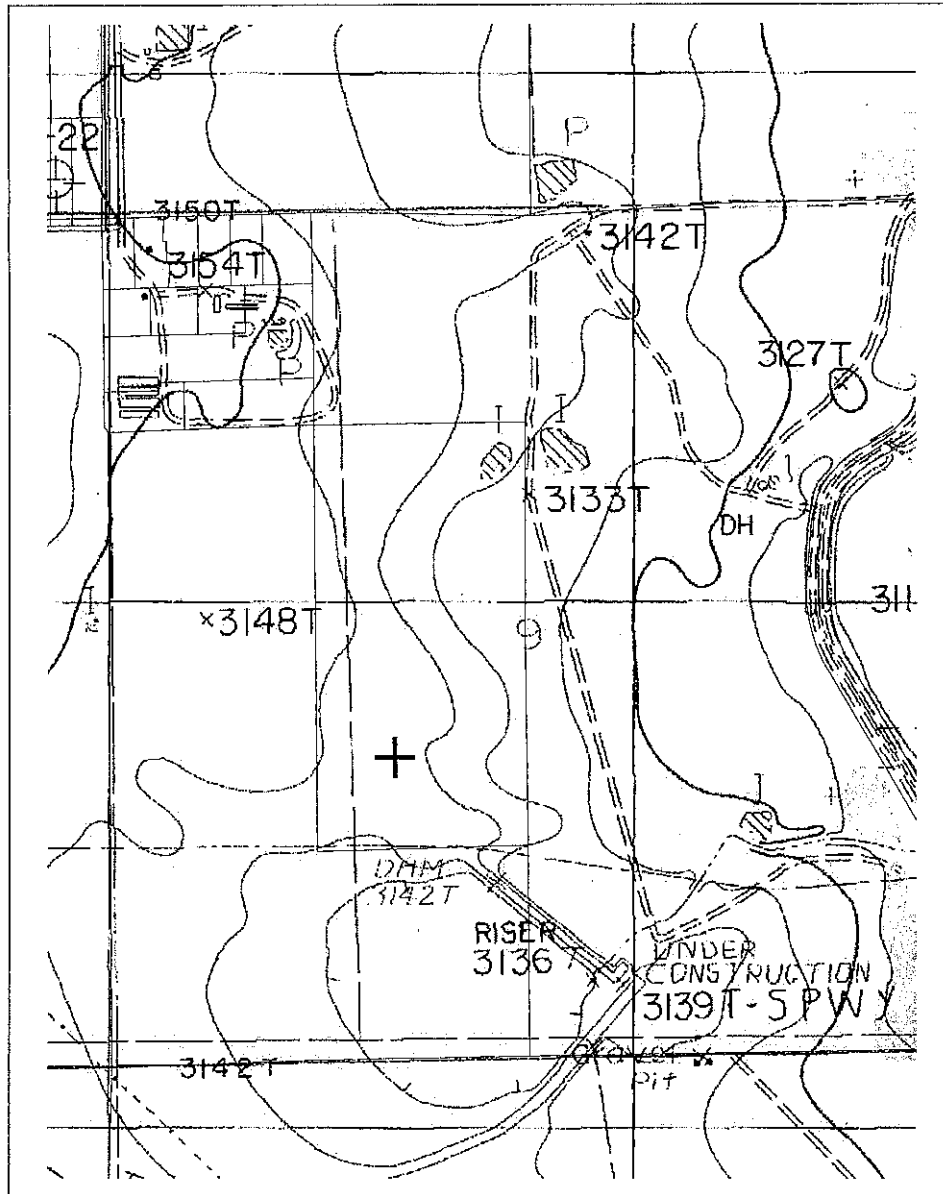
**Universal Transverse Mercator Zone: 13N**

NAD 1983(92) (Meters)	N: 3,575,907	E: 575,504
NAD 1983(92) (Survey Feet)	N: 11,731,955	E: 1,888,132
NAD 1927 (Meters)	N: 3,575,705	E: 575,553
NAD 1927 (Survey Feet)	N: 11,731,294	E: 1,888,292

**State Plane Coordinate System Zone: New Mexico East**

NAD 1983(92) (Meters)	N: 146,076	E: 177,754
NAD 1983(92) (Survey Feet)	N: 479,250	E: 583,183
NAD 1927 (Meters)	N: 146,058	E: 165,202
NAD 1927 (Survey Feet)	N: 479,191	E: 542,001



**NEW MEXICO OFFICE OF STATE ENGINEER****Locator Tool Report**

WR File Number: C 40414 POD | Scale: 1:14,368

Northing/Easting: UTM83(92) (Meter): N: 3,575,907

E: 575,504

Northing/Easting: SPCS83(92) (Feet): N: 479,250

E: 583,183

GW Basin: Carlsbad

**VL Water, LLC**

1501 Mountain Shadow  
Carlsbad NM, 88221

Phone: 575-885-2066  
Fax: 575-628-0176

March 31, 2017


To Whom It May Concern:

Scott and Valerie Branson and VL Water, LLC. Do hereby grant permission to Mr. Mike Stapleton, dba: Mstapleton, LLC to act as their agent in water well and water transfer related matters. We ask that he be granted any and all permissions necessary in order to perform the duties we ask of him regarding changes in ownership of water rights, water transfers and water wells.

Thank you in advance for your cooperation.

Best Regards,

  
Scott Branson

  
Valerie Branson


2017 MAR 31 10:05 AM  
RECEIVED  
001-100-100




## APPENDIX C

### Lithologic Soil Sampling Logs

---

 <b>ENSOLUM</b>		Sample Name: BH01		Date: 11/25/24				
		Site Name: C 17 State #001H						
		Incident Number: NRM2003533617						
		Job Number: 03A1987136						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.309078, -104.206977			Logged By: Cole Burton		Method: Backpack Drill			
			Hole Diameter: 1"		Total Depth: 4'			
Comments: Field screening conducted with the Mohr method titration for chloride. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
			Y			0	CCHE	Caliche
M	150		N	BH01	1.5	1	QTZ	Quartz - Micro crystalline, some silt and gravel
						2		
M	150		N	BH01	3.5	3	ML	Silt with gravel, light brown
M			N	BH01	4	4		
						Total Depth = 4'		

								Sample Name: BH02		Date: 11/25/24	
								Site Name: C 17 State #001H			
								Incident Number: NRM2003533617			
								Job Number: 03A1987136			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Cole Burton		Method: Backpack Drill	
Coordinates: 32.30889, -104.20718								Hole Diameter: 1"		Total Depth: 4'	
Comments: Field screening conducted with the Mohr method titration for chloride. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M			N	BH02		0	CCHE	Caliche			
M			N	BH02		1	QTZ	Quartz - Micro crystalline, some silt and gravel			
M	200		N	BH02	2	2					
M			N	BH02	3	3					
M			N	BH02	4	4					
Total Depth = 4'											



## APPENDIX D

### Laboratory Analytical Reports & Chain-of-Custody Documentation

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Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: C 17 State #001H

Work Order: E408196

Job Number: 04108-0639

Received: 8/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/29/24

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/29/24

Ashley Giovengo  
5315 Buena Vista Dr  
Carlsbad, NM 88220



Project Name: C 17 State #001H  
Workorder: E408196  
Date Received: 8/23/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/23/2024 5:30:00AM, under the Project Name: C 17 State #001H.

The analytical test results summarized in this report with the Project Name: C 17 State #001H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/29/24 13:16

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 - 1'	E408196-01A	Solid	08/21/24	08/23/24	Glass Jar, 4 oz.
BH01 - 2.5'	E408196-02A	Soil	08/21/24	08/23/24	Glass Jar, 4 oz.
BH01 - 3.5'	E408196-03A	Soil	08/21/24	08/23/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: C 17 State #001H Project Number: 04108-0639 Project Manager: Ashley Giovengo	Reported: 8/29/2024 1:16:53PM
--	--	----------------------------------

BH01 - 1'

E408196-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2434083	
Benzene	ND	0.0250	1	08/23/24	08/28/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/28/24	
Toluene	ND	0.0250	1	08/23/24	08/28/24	
o-Xylene	ND	0.0250	1	08/23/24	08/28/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/28/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		88.9 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130	08/23/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2434083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/28/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/23/24	08/28/24	
Surrogate: 1,2-Dichloroethane-d4		88.9 %	70-130	08/23/24	08/28/24	
Surrogate: Toluene-d8		107 %	70-130	08/23/24	08/28/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2434077	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/28/24	
Surrogate: n-Nonane		93.8 %	50-200	08/23/24	08/28/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2434086	
Chloride	ND	20.0	1	08/23/24	08/23/24	





WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:16:53PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2434083-BLK1)

Prepared: 08/23/24 Analyzed: 08/28/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.560		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.456		0.500		91.2	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

LCS (2434083-BS1)

Prepared: 08/23/24 Analyzed: 08/28/24

Benzene	2.20	0.0250	2.50		87.8	70-130			
Ethylbenzene	2.22	0.0250	2.50		88.6	70-130			
Toluene	2.52	0.0250	2.50		101	70-130			
o-Xylene	2.33	0.0250	2.50		93.2	70-130			
p,m-Xylene	4.57	0.0500	5.00		91.4	70-130			
Total Xylenes	6.90	0.0250	7.50		92.0	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			

Matrix Spike (2434083-MS1)

Source: E408195-05

Prepared: 08/23/24 Analyzed: 08/28/24

Benzene	2.15	0.0250	2.50	ND	86.1	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.38	0.0250	2.50	ND	95.4	48-130			
o-Xylene	2.46	0.0250	2.50	ND	98.2	43-135			
p,m-Xylene	4.89	0.0500	5.00	ND	97.7	43-135			
Total Xylenes	7.34	0.0250	7.50	ND	97.9	43-135			
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike Dup (2434083-MSD1)

Source: E408195-05

Prepared: 08/23/24 Analyzed: 08/28/24

Benzene	2.19	0.0250	2.50	ND	87.5	48-131	1.57	23	
Ethylbenzene	2.32	0.0250	2.50	ND	93.0	45-135	1.08	27	
Toluene	2.41	0.0250	2.50	ND	96.5	48-130	1.21	24	
o-Xylene	2.49	0.0250	2.50	ND	99.6	43-135	1.41	27	
p,m-Xylene	4.94	0.0500	5.00	ND	98.7	43-135	1.02	27	
Total Xylenes	7.43	0.0250	7.50	ND	99.0	43-135	1.15	27	
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:16:53PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2434083-BLK1) Prepared: 08/23/24 Analyzed: 08/28/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.560		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.456		0.500		91.2	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

LCS (2434083-BS2) Prepared: 08/23/24 Analyzed: 08/28/24

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		98.9	70-130			
Surrogate: Bromofluorobenzene	0.569		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		90.9	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			

Matrix Spike (2434083-MS2) Source: E408195-05 Prepared: 08/23/24 Analyzed: 08/28/24

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130			
Surrogate: Bromofluorobenzene	0.541		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

Matrix Spike Dup (2434083-MSD2) Source: E408195-05 Prepared: 08/23/24 Analyzed: 08/26/24

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130	3.23	20	
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:16:53PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434077-BLK1) Prepared: 08/23/24 Analyzed: 08/24/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.4		50.0		92.7	50-200			

LCS (2434077-BS1) Prepared: 08/23/24 Analyzed: 08/24/24

Diesel Range Organics (C10-C28)	219	25.0	250		87.7	38-132			
Surrogate: n-Nonane	50.4		50.0		101	50-200			

Matrix Spike (2434077-MS1) Source: E408195-01 Prepared: 08/23/24 Analyzed: 08/24/24

Diesel Range Organics (C10-C28)	227	25.0	250	ND	91.0	38-132			
Surrogate: n-Nonane	47.9		50.0		95.8	50-200			

Matrix Spike Dup (2434077-MSD1) Source: E408195-01 Prepared: 08/23/24 Analyzed: 08/24/24

Diesel Range Organics (C10-C28)	235	25.0	250	ND	93.9	38-132	3.11	20	
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:16:53PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2434086-BLK1)					Prepared: 08/23/24 Analyzed: 08/23/24				
Chloride	ND	20.0							
LCS (2434086-BS1)					Prepared: 08/23/24 Analyzed: 08/23/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2434086-MS1)					Source: E408196-03		Prepared: 08/23/24 Analyzed: 08/23/24		
Chloride	271	20.0	250	23.3	99.1	80-120			
Matrix Spike Dup (2434086-MSD1)					Source: E408196-03		Prepared: 08/23/24 Analyzed: 08/23/24		
Chloride	271	20.0	250	23.3	99.2	80-120	0.0656	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/29/24 13:16

- ND      Analyte NOT DETECTED at or above the reporting limit
- NR      Not Reported
- RPD      Relative Percent Difference
- DNI      Did Not Ignite
- DNR      Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client Information				Invoice Information				Lab Data Only				TAT				State											
Client: WPX Energy Permian, LLC				Company: WPX Energy Permian, LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX								
Project: C 17 State #001H				Address: 5315 Buena Vista Dr				E 408196		04108-0639					X	X											
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																							
Address: 3122 National Parks Hwy				Phone: (575)689-7597																							
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dmn.com																							
Phone: 575-988-0055				Miscellaneous: Jim Raley																							
Email: agiovengo@ensolum.com																											
																Analysis and Method				EPA Program							
																DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
																								Compliance	Y	or	N
																								PWSID #			
																								Remarks			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number																					
9:00	8/21/2024	Sd	1	BH01 - 1'		1									X												
9:34	8/21/2024	S	1	BH01 - 2.5'		2									X				Do not run unless BH01 - 1' is > 600Cl or 100 TPH								
9:48	8/21/2024	S	1	BH01 - 3.5'		3									X				Do not run unless BH01 - 2.5' is > 600Cl or 100 TPH								
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dmn.com, iestrella@ensolum.com, bdeal@ensolum, chamilton@ensolum.com, bsimmons@ensolum.com																											
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																											
Sampled by: Cole Burton																											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.  Lab Use Only Received on ice: Y / N  T1 _____ T2 _____ T3 _____  AVG Temp °C 4															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																											
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																											

## Envirotech Analytical Laboratory

Printed: 8/23/2024 10:53:07AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	08/23/24 05:30	Work Order ID:	E408196
Phone:	(539) 573-4018	Date Logged In:	08/22/24 17:09	Logged In By:	Noe Soto
Email:	ashley.giovengo@wesominc.com	Due Date:	08/29/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:  
Sample ID? Yes  
Date/Time Collected? Yes  
Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: C 17 State #001H

Work Order: E408197

Job Number: 04108-0639

Received: 8/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/29/24

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/29/24



Ashley Giovengo  
5315 Buena Vista Dr  
Carlsbad, NM 88220

Project Name: C 17 State #001H  
Workorder: E408197  
Date Received: 8/23/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/23/2024 5:30:00AM, under the Project Name: C 17 State #001H.

The analytical test results summarized in this report with the Project Name: C 17 State #001H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
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Client Representative  
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[mgonzaless@envirotech-inc.com](mailto:mgonzaless@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/29/24 13:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 - 1'	E408197-01A	Solid	08/21/24	08/23/24	Glass Jar, 4 oz.
BH02 - 1.5'	E408197-02A	Solid	08/21/24	08/23/24	Glass Jar, 4 oz.
BH02 - 2.5'	E408197-03A	Solid	08/21/24	08/23/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: C 17 State #001H Project Number: 04108-0639 Project Manager: Ashley Giovengo	Reported: 8/29/2024 1:26:34PM
--	--	----------------------------------

BH02 - 1'

E408197-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>		mg/kg	mg/kg	Analyst: RKS		Batch: 2434083
Benzene	ND	0.0250	1	08/23/24	08/29/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/29/24	
Toluene	ND	0.0250	1	08/23/24	08/29/24	
o-Xylene	ND	0.0250	1	08/23/24	08/29/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/29/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/29/24	
Surrogate: Bromofluorobenzene		105 %	70-130	08/23/24	08/29/24	
Surrogate: 1,2-Dichloroethane-d4		89.2 %	70-130	08/23/24	08/29/24	
Surrogate: Toluene-d8		107 %	70-130	08/23/24	08/29/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: RKS		Batch: 2434083
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/29/24	
Surrogate: Bromofluorobenzene		105 %	70-130	08/23/24	08/29/24	
Surrogate: 1,2-Dichloroethane-d4		89.2 %	70-130	08/23/24	08/29/24	
Surrogate: Toluene-d8		107 %	70-130	08/23/24	08/29/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: NV		Batch: 2434077
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/28/24	
Surrogate: n-Nonane		94.9 %	50-200	08/23/24	08/28/24	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: JM		Batch: 2434086
Chloride	64.4	20.0	1	08/23/24	08/23/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:26:34PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2434083-BLK1) Prepared: 08/23/24 Analyzed: 08/28/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.560		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.456		0.500		91.2	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

LCS (2434083-BS1) Prepared: 08/23/24 Analyzed: 08/28/24

Benzene	2.20	0.0250	2.50		87.8	70-130			
Ethylbenzene	2.22	0.0250	2.50		88.6	70-130			
Toluene	2.52	0.0250	2.50		101	70-130			
o-Xylene	2.33	0.0250	2.50		93.2	70-130			
p,m-Xylene	4.57	0.0500	5.00		91.4	70-130			
Total Xylenes	6.90	0.0250	7.50		92.0	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			

Matrix Spike (2434083-MS1) Source: E408195-05 Prepared: 08/23/24 Analyzed: 08/28/24

Benzene	2.15	0.0250	2.50	ND	86.1	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.38	0.0250	2.50	ND	95.4	48-130			
o-Xylene	2.46	0.0250	2.50	ND	98.2	43-135			
p,m-Xylene	4.89	0.0500	5.00	ND	97.7	43-135			
Total Xylenes	7.34	0.0250	7.50	ND	97.9	43-135			
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike Dup (2434083-MSD1) Source: E408195-05 Prepared: 08/23/24 Analyzed: 08/28/24

Benzene	2.19	0.0250	2.50	ND	87.5	48-131	1.57	23	
Ethylbenzene	2.32	0.0250	2.50	ND	93.0	45-135	1.08	27	
Toluene	2.41	0.0250	2.50	ND	96.5	48-130	1.21	24	
o-Xylene	2.49	0.0250	2.50	ND	99.6	43-135	1.41	27	
p,m-Xylene	4.94	0.0500	5.00	ND	98.7	43-135	1.02	27	
Total Xylenes	7.43	0.0250	7.50	ND	99.0	43-135	1.15	27	
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:26:34PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2434083-BLK1) Prepared: 08/23/24 Analyzed: 08/28/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.560		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.456		0.500		91.2	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

LCS (2434083-BS2) Prepared: 08/23/24 Analyzed: 08/28/24

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		98.9	70-130			
Surrogate: Bromofluorobenzene	0.569		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		90.9	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			

Matrix Spike (2434083-MS2) Source: E408195-05 Prepared: 08/23/24 Analyzed: 08/28/24

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130			
Surrogate: Bromofluorobenzene	0.541		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

Matrix Spike Dup (2434083-MSD2) Source: E408195-05 Prepared: 08/23/24 Analyzed: 08/26/24

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130	3.23	20	
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:26:34PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434077-BLK1) Prepared: 08/23/24 Analyzed: 08/24/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.4		50.0		92.7	50-200			

LCS (2434077-BS1) Prepared: 08/23/24 Analyzed: 08/24/24

Diesel Range Organics (C10-C28)	219	25.0	250		87.7	38-132			
Surrogate: n-Nonane	50.4		50.0		101	50-200			

Matrix Spike (2434077-MS1) Source: E408195-01 Prepared: 08/23/24 Analyzed: 08/24/24

Diesel Range Organics (C10-C28)	227	25.0	250	ND	91.0	38-132			
Surrogate: n-Nonane	47.9		50.0		95.8	50-200			

Matrix Spike Dup (2434077-MSD1) Source: E408195-01 Prepared: 08/23/24 Analyzed: 08/24/24

Diesel Range Organics (C10-C28)	235	25.0	250	ND	93.9	38-132	3.11	20	
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			





QC Summary Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/29/2024 1:26:34PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2434086-BLK1)					Prepared: 08/23/24 Analyzed: 08/23/24				
Chloride	ND	20.0							
LCS (2434086-BS1)					Prepared: 08/23/24 Analyzed: 08/23/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2434086-MS1)					Source: E408196-03		Prepared: 08/23/24 Analyzed: 08/23/24		
Chloride	271	20.0	250	23.3	99.1	80-120			
Matrix Spike Dup (2434086-MSD1)					Source: E408196-03		Prepared: 08/23/24 Analyzed: 08/23/24		
Chloride	271	20.0	250	23.3	99.2	80-120	0.0656	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/29/24 13:26

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Page 11 of 12

## Envirotech Analytical Laboratory

Printed: 8/23/2024 11:01:48AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: WPX Energy - Carlsbad  
Phone: (539) 573-4018  
Email: ashley.giovengo@wesominc.com

Date Received: 08/23/24 05:30  
Date Logged In: 08/22/24 17:10  
Due Date: 08/29/24 17:00 (4 day TAT)

Work Order ID: E408197  
Logged In By: Noe Soto

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:  
Sample ID? Yes  
Date/Time Collected? Yes  
Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: C 17 State #001H

Work Order: E409271

Job Number: 01058-0007

Received: 9/30/2024

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
10/4/24

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/4/24



Ashley Giovengo  
5315 Buena Vista Dr  
Carlsbad, NM 88220

Project Name: C 17 State #001H  
Workorder: E409271  
Date Received: 9/30/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/30/2024 8:00:00AM, under the Project Name: C 17 State #001H.

The analytical test results summarized in this report with the Project Name: C 17 State #001H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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Sample Summary

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	10/04/24 10:13

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS08-0'	E409271-01A	Soil	09/26/24	09/30/24	Glass Jar, 2 oz.
SS09-0'	E409271-02A	Soil	09/26/24	09/30/24	Glass Jar, 2 oz.
SS10-0'	E409271-03A	Soil	09/26/24	09/30/24	Glass Jar, 2 oz.
SS11-0'	E409271-04A	Soil	09/26/24	09/30/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: C 17 State #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/4/2024 10:13:39AM
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SS08-0'  
E409271-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2440017	
Benzene	ND	0.0250	1	09/30/24	10/02/24	
Ethylbenzene	ND	0.0250	1	09/30/24	10/02/24	
Toluene	ND	0.0250	1	09/30/24	10/02/24	
o-Xylene	ND	0.0250	1	09/30/24	10/02/24	
p,m-Xylene	ND	0.0500	1	09/30/24	10/02/24	
Total Xylenes	ND	0.0250	1	09/30/24	10/02/24	
Surrogate: Bromofluorobenzene		114 %	70-130	09/30/24	10/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	09/30/24	10/02/24	
Surrogate: Toluene-d8		110 %	70-130	09/30/24	10/02/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2440017	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/30/24	10/02/24	
Surrogate: Bromofluorobenzene		114 %	70-130	09/30/24	10/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	09/30/24	10/02/24	
Surrogate: Toluene-d8		110 %	70-130	09/30/24	10/02/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2440004	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/30/24	10/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/30/24	10/02/24	
Surrogate: n-Nonane		97.4 %	50-200	09/30/24	10/02/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2440020	
Chloride	296	40.0	2	09/30/24	10/01/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported: 10/4/2024 10:13:39AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SS09-0'

E409271-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440017	
Benzene	ND	0.0250	1	09/30/24	10/02/24	
Ethylbenzene	ND	0.0250	1	09/30/24	10/02/24	
Toluene	ND	0.0250	1	09/30/24	10/02/24	
o-Xylene	ND	0.0250	1	09/30/24	10/02/24	
p,m-Xylene	ND	0.0500	1	09/30/24	10/02/24	
Total Xylenes	ND	0.0250	1	09/30/24	10/02/24	
Surrogate: Bromofluorobenzene		117 %	70-130	09/30/24	10/02/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	09/30/24	10/02/24	
Surrogate: Toluene-d8		111 %	70-130	09/30/24	10/02/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440017	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/30/24	10/02/24	
Surrogate: Bromofluorobenzene		117 %	70-130	09/30/24	10/02/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	09/30/24	10/02/24	
Surrogate: Toluene-d8		111 %	70-130	09/30/24	10/02/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2440004	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/30/24	10/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/30/24	10/03/24	
Surrogate: n-Nonane		95.0 %	50-200	09/30/24	10/03/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2440020	
Chloride	155	20.0	1	09/30/24	09/30/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: C 17 State #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/4/2024 10:13:39AM
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SS10-0'

E409271-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2440017
Benzene	ND	0.0250	1	09/30/24	10/02/24	
Ethylbenzene	ND	0.0250	1	09/30/24	10/02/24	
Toluene	ND	0.0250	1	09/30/24	10/02/24	
o-Xylene	ND	0.0250	1	09/30/24	10/02/24	
p,m-Xylene	ND	0.0500	1	09/30/24	10/02/24	
Total Xylenes	ND	0.0250	1	09/30/24	10/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	09/30/24	10/02/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	09/30/24	10/02/24	
Surrogate: Toluene-d8		111 %	70-130	09/30/24	10/02/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2440017
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/30/24	10/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	09/30/24	10/02/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	09/30/24	10/02/24	
Surrogate: Toluene-d8		111 %	70-130	09/30/24	10/02/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2440004
Diesel Range Organics (C10-C28)	ND	25.0	1	09/30/24	10/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/30/24	10/03/24	
Surrogate: n-Nonane		95.0 %	50-200	09/30/24	10/03/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2440020
Chloride	ND	20.0	1	09/30/24	10/01/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported: 10/4/2024 10:13:39AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SS11-0'

E409271-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2440017	
Benzene	ND	0.0250	1	09/30/24	10/02/24	
Ethylbenzene	ND	0.0250	1	09/30/24	10/02/24	
Toluene	ND	0.0250	1	09/30/24	10/02/24	
o-Xylene	ND	0.0250	1	09/30/24	10/02/24	
p,m-Xylene	ND	0.0500	1	09/30/24	10/02/24	
Total Xylenes	ND	0.0250	1	09/30/24	10/02/24	
Surrogate: Bromofluorobenzene		113 %	70-130	09/30/24	10/02/24	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130	09/30/24	10/02/24	
Surrogate: Toluene-d8		110 %	70-130	09/30/24	10/02/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2440017	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/30/24	10/02/24	
Surrogate: Bromofluorobenzene		113 %	70-130	09/30/24	10/02/24	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130	09/30/24	10/02/24	
Surrogate: Toluene-d8		110 %	70-130	09/30/24	10/02/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2440004	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/30/24	10/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/30/24	10/03/24	
Surrogate: n-Nonane		96.5 %	50-200	09/30/24	10/03/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2440020	
Chloride	129	20.0	1	09/30/24	10/01/24	





QC Summary Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	10/4/2024 10:13:39AM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2440017-BLK1)Prepared: 09/30/24 Analyzed: 10/02/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.590		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.548		0.500		110	70-130			

LCS (2440017-BS1)Prepared: 09/30/24 Analyzed: 10/02/24

Benzene	2.41	0.0250	2.50		96.2	70-130			
Ethylbenzene	2.43	0.0250	2.50		97.3	70-130			
Toluene	2.47	0.0250	2.50		98.8	70-130			
o-Xylene	2.57	0.0250	2.50		103	70-130			
p,m-Xylene	5.16	0.0500	5.00		103	70-130			
Total Xylenes	7.73	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.598		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

Matrix Spike (2440017-MS1)Source: E409272-03Prepared: 09/30/24 Analyzed: 10/02/24

Benzene	2.49	0.0250	2.50	ND	99.7	48-131			
Ethylbenzene	2.49	0.0250	2.50	ND	99.7	45-135			
Toluene	2.52	0.0250	2.50	ND	101	48-130			
o-Xylene	2.61	0.0250	2.50	ND	104	43-135			
p,m-Xylene	5.18	0.0500	5.00	ND	104	43-135			
Total Xylenes	7.79	0.0250	7.50	ND	104	43-135			
Surrogate: Bromofluorobenzene	0.586		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

Matrix Spike Dup (2440017-MSD1)Source: E409272-03Prepared: 09/30/24 Analyzed: 10/02/24

Benzene	2.45	0.0250	2.50	ND	97.8	48-131	1.84	23	
Ethylbenzene	2.50	0.0250	2.50	ND	100	45-135	0.380	27	
Toluene	2.55	0.0250	2.50	ND	102	48-130	1.06	24	
o-Xylene	2.57	0.0250	2.50	ND	103	43-135	1.56	27	
p,m-Xylene	5.13	0.0500	5.00	ND	103	43-135	0.961	27	
Total Xylenes	7.70	0.0250	7.50	ND	103	43-135	1.16	27	
Surrogate: Bromofluorobenzene	0.582		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	10/4/2024 10:13:39AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2440017-BLK1) Prepared: 09/30/24 Analyzed: 10/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.590		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.548		0.500		110	70-130			

LCS (2440017-BS2) Prepared: 09/30/24 Analyzed: 10/02/24

Gasoline Range Organics (C6-C10)	58.5	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	0.585		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		92.0	70-130			
Surrogate: Toluene-d8	0.566		0.500		113	70-130			

Matrix Spike (2440017-MS2) Source: E409272-03 Prepared: 09/30/24 Analyzed: 10/02/24

Gasoline Range Organics (C6-C10)	60.3	20.0	50.0	ND	121	70-130			
Surrogate: Bromofluorobenzene	0.592		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.3	70-130			
Surrogate: Toluene-d8	0.562		0.500		112	70-130			

Matrix Spike Dup (2440017-MSD2) Source: E409272-03 Prepared: 09/30/24 Analyzed: 10/02/24

Gasoline Range Organics (C6-C10)	58.5	20.0	50.0	ND	117	70-130	3.07	20	
Surrogate: Bromofluorobenzene	0.596		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130			
Surrogate: Toluene-d8	0.563		0.500		113	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	10/4/2024 10:13:39AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2440004-BLK1) Prepared: 09/30/24 Analyzed: 10/02/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.7		50.0		105	50-200			

LCS (2440004-BS1) Prepared: 09/30/24 Analyzed: 10/02/24

Diesel Range Organics (C10-C28)	283	25.0	250		113	38-132			
Surrogate: n-Nonane	54.9		50.0		110	50-200			

Matrix Spike (2440004-MS1) Source: E409270-22 Prepared: 09/30/24 Analyzed: 10/02/24

Diesel Range Organics (C10-C28)	299	25.0	250	ND	120	38-132			
Surrogate: n-Nonane	54.6		50.0		109	50-200			

Matrix Spike Dup (2440004-MSD1) Source: E409270-22 Prepared: 09/30/24 Analyzed: 10/02/24

Diesel Range Organics (C10-C28)	313	25.0	250	ND	125	38-132	4.71	20	
Surrogate: n-Nonane	56.2		50.0		112	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	10/4/2024 10:13:39AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2440020-BLK1)					Prepared: 09/30/24 Analyzed: 09/30/24				
Chloride	ND	20.0							
LCS (2440020-BS1)					Prepared: 09/30/24 Analyzed: 09/30/24				
Chloride	256	20.0	250		103	90-110			
Matrix Spike (2440020-MS1)					Source: E409271-02		Prepared: 09/30/24 Analyzed: 09/30/24		
Chloride	418	20.0	250	155	105	80-120			
Matrix Spike Dup (2440020-MSD1)					Source: E409271-02		Prepared: 09/30/24 Analyzed: 09/30/24		
Chloride	383	20.0	250	155	91.2	80-120	8.58	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	10/04/24 10:13

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client Information				Invoice Information				Lab Use Only				TAT				State							
Client: WPX Energy Permian, LLC				Company: WPX Energy Permian, LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX				
Project: C 17 State #001H				Address: 5315 Buena Vista Dr				E409271		01058-0007					X	X							
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																			
Address: 3122 National Parks Hwy				Phone: (575)689-7597																			
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dmv.com																			
Phone: 575-988-0055				Miscellaneous: Jim Raley																			
Email: agiovengo@ensolum.com																							
Sample Information												Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA					
11:50	9/26/2024	S	1	5508-0'			1						X										
11:52	9/26/2024	S	1	5509-0'			2						X										
11:53	9/26/2024	S	1	5510-0'			3						X										
12:32	9/26/2024	S	1	5511-0'			4						X										
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dmv.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by: Cole Burton																							
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.				Lab Use Only													
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time					Received on ice: (Y) N													
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time					T1 T2 T3													
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time					AVG Temp °C 4													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							



## Envirotech Analytical Laboratory

Printed: 9/30/2024 9:47:06AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	09/30/24 08:00	Work Order ID:	E409271
Phone:	(539) 573-4018	Date Logged In:	09/27/24 15:44	Logged In By:	Caitlin Mars
Email:	ashley.giovengo@wesominc.com	Due Date:	10/04/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:  
Sample ID? Yes  
Date/Time Collected? Yes  
Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: C 17 State #001H

Work Order: E411267

Job Number: 01058-0007

Received: 11/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/2/24

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/2/24

Ashley Giovengo  
5315 Buena Vista Dr  
Carlsbad, NM 88220



Project Name: C 17 State #001H  
Workorder: E411267  
Date Received: 11/26/2024 7:00:35AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/26/2024 7:00:35AM, under the Project Name: C 17 State #001H.

The analytical test results summarized in this report with the Project Name: C 17 State #001H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
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Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	12/02/24 11:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 - 2'	E411267-01A	Soil	11/25/24	11/26/24	Glass Jar, 2 oz.
BH01 - 3'	E411267-02A	Soil	11/25/24	11/26/24	Glass Jar, 2 oz.
BH01 - 4'	E411267-03A	Soil	11/25/24	11/26/24	Glass Jar, 2 oz.
BH02 - 2'	E411267-04A	Soil	11/25/24	11/26/24	Glass Jar, 2 oz.
BH02 - 3'	E411267-05A	Soil	11/25/24	11/26/24	Glass Jar, 2 oz.
BH02 - 4'	E411267-06A	Soil	11/25/24	11/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: C 17 State #001H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 12/2/2024 11:27:24AM
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BH01 - 2'

E411267-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2448040	
Benzene	ND	0.0250	1	11/26/24	11/27/24	
Ethylbenzene	ND	0.0250	1	11/26/24	11/27/24	
Toluene	ND	0.0250	1	11/26/24	11/27/24	
o-Xylene	ND	0.0250	1	11/26/24	11/27/24	
p,m-Xylene	ND	0.0500	1	11/26/24	11/27/24	
Total Xylenes	ND	0.0250	1	11/26/24	11/27/24	
Surrogate: 4-Bromochlorobenzene-PID	97.9 %	70-130		11/26/24	11/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2448040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/26/24	11/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.7 %	70-130		11/26/24	11/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: AF		Batch: 2448035	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/26/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/26/24	11/27/24	
Surrogate: n-Nonane	111 %	50-200		11/26/24	11/27/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2448030	
Chloride	170	20.0	1	11/26/24	11/26/24	





Sample Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported: 12/2/2024 11:27:24AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

BH01 - 3'

E411267-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2448040	
Benzene	ND	0.0250	1	11/26/24	11/27/24	
Ethylbenzene	ND	0.0250	1	11/26/24	11/27/24	
Toluene	ND	0.0250	1	11/26/24	11/27/24	
o-Xylene	ND	0.0250	1	11/26/24	11/27/24	
p,m-Xylene	ND	0.0500	1	11/26/24	11/27/24	
Total Xylenes	ND	0.0250	1	11/26/24	11/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		11/26/24	11/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2448040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/26/24	11/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.0 %	70-130		11/26/24	11/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: AF		Batch: 2448035	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/26/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/26/24	11/27/24	
<i>Surrogate: n-Nonane</i>						
	97.1 %	50-200		11/26/24	11/27/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2448030	
Chloride	110	20.0	1	11/26/24	11/26/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported: 12/2/2024 11:27:24AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

BH01 - 4'

E411267-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2448040	
Benzene	ND	0.0250	1	11/26/24	11/27/24	
Ethylbenzene	ND	0.0250	1	11/26/24	11/27/24	
Toluene	ND	0.0250	1	11/26/24	11/27/24	
o-Xylene	ND	0.0250	1	11/26/24	11/27/24	
p,m-Xylene	ND	0.0500	1	11/26/24	11/27/24	
Total Xylenes	ND	0.0250	1	11/26/24	11/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		11/26/24	11/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2448040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/26/24	11/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.9 %	70-130		11/26/24	11/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: AF		Batch: 2448035	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/26/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/26/24	11/27/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		11/26/24	11/27/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2448030	
Chloride	43.2	20.0	1	11/26/24	11/26/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported: 12/2/2024 11:27:24AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

BH02 - 2'

E411267-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2448040	
Benzene	ND	0.0250	1	11/26/24	11/27/24	
Ethylbenzene	ND	0.0250	1	11/26/24	11/27/24	
Toluene	ND	0.0250	1	11/26/24	11/27/24	
o-Xylene	ND	0.0250	1	11/26/24	11/27/24	
p,m-Xylene	ND	0.0500	1	11/26/24	11/27/24	
Total Xylenes	ND	0.0250	1	11/26/24	11/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.7 %	70-130		11/26/24	11/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2448040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/26/24	11/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.5 %	70-130		11/26/24	11/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: AF		Batch: 2448035	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/26/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/26/24	11/27/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		11/26/24	11/27/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2448030	
Chloride	ND	20.0	1	11/26/24	11/26/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported: 12/2/2024 11:27:24AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

BH02 - 3'

E411267-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2448040	
Benzene	ND	0.0250	1	11/26/24	11/27/24	
Ethylbenzene	ND	0.0250	1	11/26/24	11/27/24	
Toluene	ND	0.0250	1	11/26/24	11/27/24	
o-Xylene	ND	0.0250	1	11/26/24	11/27/24	
p,m-Xylene	ND	0.0500	1	11/26/24	11/27/24	
Total Xylenes	ND	0.0250	1	11/26/24	11/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		11/26/24	11/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2448040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/26/24	11/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		11/26/24	11/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: AF		Batch: 2448035	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/26/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/26/24	11/27/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		11/26/24	11/27/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2448030	
Chloride	106	20.0	1	11/26/24	11/26/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported: 12/2/2024 11:27:24AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

BH02 - 4'

E411267-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2448040	
Benzene	ND	0.0250	1	11/26/24	11/27/24	
Ethylbenzene	ND	0.0250	1	11/26/24	11/27/24	
Toluene	ND	0.0250	1	11/26/24	11/27/24	
o-Xylene	ND	0.0250	1	11/26/24	11/27/24	
p,m-Xylene	ND	0.0500	1	11/26/24	11/27/24	
Total Xylenes	ND	0.0250	1	11/26/24	11/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		11/26/24	11/27/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2448040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/26/24	11/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.4 %	70-130		11/26/24	11/27/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: AF		Batch: 2448035	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/26/24	11/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/26/24	11/27/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		11/26/24	11/27/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2448030	
Chloride	42.5	20.0	1	11/26/24	11/26/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	12/2/2024 11:27:24AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2448040-BLK1)

Prepared: 11/26/24 Analyzed: 11/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.7	70-130			

LCS (2448040-BS1)

Prepared: 11/26/24 Analyzed: 11/27/24

Benzene	5.31	0.0250	5.00		106	70-130			
Ethylbenzene	5.08	0.0250	5.00		102	70-130			
Toluene	5.21	0.0250	5.00		104	70-130			
o-Xylene	5.12	0.0250	5.00		102	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.6	70-130			

LCS Dup (2448040-BSD1)

Prepared: 11/26/24 Analyzed: 11/27/24

Benzene	5.52	0.0250	5.00		110	70-130	3.84	20	
Ethylbenzene	5.30	0.0250	5.00		106	70-130	4.26	20	
Toluene	5.42	0.0250	5.00		108	70-130	4.01	20	
o-Xylene	5.32	0.0250	5.00		106	70-130	3.98	20	
p,m-Xylene	10.8	0.0500	10.0		108	70-130	4.15	20	
Total Xylenes	16.1	0.0250	15.0		107	70-130	4.10	20	
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			





QC Summary Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	12/2/2024 11:27:24AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2448040-BLK1) Prepared: 11/26/24 Analyzed: 11/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

LCS (2448040-BS2) Prepared: 11/26/24 Analyzed: 11/27/24

Gasoline Range Organics (C6-C10)	41.3	20.0	50.0		82.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.2	70-130			

LCS Dup (2448040-BSD2) Prepared: 11/26/24 Analyzed: 11/27/24

Gasoline Range Organics (C6-C10)	41.6	20.0	50.0		83.2	70-130	0.701	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	12/2/2024 11:27:24AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2448035-BLK1) Prepared: 11/26/24 Analyzed: 11/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	60.4		50.0		121	50-200			

LCS (2448035-BS1) Prepared: 11/26/24 Analyzed: 11/26/24

Diesel Range Organics (C10-C28)	286	25.0	250		114	38-132			
Surrogate: n-Nonane	56.1		50.0		112	50-200			

Matrix Spike (2448035-MS1) Source: E411266-05 Prepared: 11/26/24 Analyzed: 11/26/24

Diesel Range Organics (C10-C28)	472	25.0	250	177	118	38-132			
Surrogate: n-Nonane	58.4		50.0		117	50-200			

Matrix Spike Dup (2448035-MSD1) Source: E411266-05 Prepared: 11/26/24 Analyzed: 11/26/24

Diesel Range Organics (C10-C28)	486	25.0	250	177	124	38-132	2.93	20	
Surrogate: n-Nonane	59.4		50.0		119	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	12/2/2024 11:27:24AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2448030-BLK1)					Prepared: 11/26/24 Analyzed: 11/26/24				
Chloride	ND	20.0							
LCS (2448030-BS1)					Prepared: 11/26/24 Analyzed: 11/26/24				
Chloride	264	20.0	250		106	90-110			
LCS Dup (2448030-BSD1)					Prepared: 11/26/24 Analyzed: 11/26/24				
Chloride	266	20.0	250		106	90-110	0.734	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	C 17 State #001H	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	12/02/24 11:27

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Chain of Custody

Page 4 of 1

Client Information				Invoice Information				Lab Use Only				TAT				State						
Client: WPX Energy Permian, LLC				Company: WPX Energy Permian, LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX			
Project: C 17 State #001H				Address: 5315 Buena Vista Dr				E411267		9058-0007					X	X						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																		
Address: 3122 National Parks Hwy				Phone: (575)689-7597																		
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dmv.com																		
Phone: 575-988-0055				Miscellaneous: Jim Raley																		
Email: agiovengo@ensolum.com																						
Sample Information										Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA					
9:14	11/25/2024	S	1	BH01 - 2'		1						X										
9:48	11/25/2024	S	1	BH01 - 3'		2						X										
10:09	11/25/2024	S	1	BH01 - 4'		3						X										
10:43	11/25/2024	Sd	1	BH02 - 2'		4						X										
11:14	11/25/2024	Sd	1	BH02 - 3'		5						X										
11:37	11/25/2024	Sd	1	BH02 - 4'		6						X										
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dmv.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																						
Sampled by: Cole Burton																						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.														
Michelle Gonzales		11/25/24	12:46	Michelle Gonzales		11-25-24	1246															
Michelle Gonzales		11-25-24	1720	J.H.		11-23-24	1730	Lab Use Only														
J.H.		11-23-24	2400	Caitlin Mann		11-26-24	7:00	Received on ice: (Y) / N														
								T1 T2 T3														
								AVG Temp °C 4														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																						
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																						
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						



## Envirotech Analytical Laboratory

Printed: 11/26/2024 1:31:16PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/26/24 07:00	Work Order ID:	E411267
Phone:	(539) 573-4018	Date Logged In:	11/26/24 07:50	Logged In By:	Caitlin Mars
Email:	ashley.giovengo@wesominc.com	Due Date:	12/04/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:  
Sample ID? Yes  
Date/Time Collected? Yes  
Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 409513

**QUESTIONS**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 409513
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nRM2003533617
Incident Name	NRM2003533617 C 17 STATE #001H @ 30-015-44534
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Well	[30-015-44534] C 17 STATE #001H

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	C 17 STATE #001H
Date Release Discovered	12/19/2019
Surface Owner	State

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

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Produced Water   Released: 35 BBL   Recovered: 35 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 409513

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 409513
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

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

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvsn.com Date: 12/06/2024
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QUESTIONS, Page 3

Action 409513

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number: 409513
Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)	

**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	NM OSE iWaters Database Search
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 ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 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	Between ½ and 1 (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	High
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<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)	8910
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<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	01/01/2070
On what date will (or did) the final sampling or liner inspection occur	01/14/2020
On what date will (or was) the remediation complete(d)	01/01/2070
What is the estimated surface area (in square feet) that will be reclaimed	4824
What is the estimated volume (in cubic yards) that will be reclaimed	179
What is the estimated surface area (in square feet) that will be remediated	4824
What is the estimated volume (in cubic yards) that will be remediated	179
<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 409513

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 409513
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**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: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 12/09/2024
<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 409513

**QUESTIONS (continued)**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 409513
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Tank battery
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	4824
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	179
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-44534 C 17 STATE #001H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<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: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 12/09/2024

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QUESTIONS, Page 6

Action 409513

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 409513
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No



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State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 409513

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 409513
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	WPX's deferral requests final remediation for (Incident Number NRM2003533617) until final reclamation of the well pad or major construction, whichever comes first. WPX and Ensolum do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the shaded area on figure 3 that is limited to the area immediately beneath the lined containment and active production equipment, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and placed in the incident file. The release will remain open in OCD database files and reflect an open environmental issue.	4/2/2025