



DEFERRAL REQUEST REPORT

RDx Federal 21 #031

Eddy County, New Mexico

Incident Number nAPP2326847671

Prepared for:

WPX Energy Permian, LLC.

Carlsbad • Midland • San Antonio • Lubbock • Hobbs • Lafayette



SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Deferral Request Report (DRR) detailing site assessment and soil sampling activities associated with an inadvertent release of crude oil and produced water at the RDX Federal 21 #031 (Site). Based on the laboratory analytical results from recent soil sampling events, WPX is requesting to defer residual impacted soil beneath a lined tank battery containment until the Site undergoes major reconstruction or plugging and abandonment (P&A), whichever comes first.

SITE LOCATION AND BACKGROUND

The Site is located in Unit K, Section 21, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.0270042°, -103.8903732°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1 in Appendix A**).

On September 23, 2023, an equipment malfunction caused a produced water tank to overflow and release approximately 10 barrels (bbls) of crude oil and 195 bbls of produced water into a tank battery lined containment. Approximately 5 bbls of fluids breached the containment and escaped to the pad surface. Vacuum trucks were immediately dispatched and recovered approximately 10 bbls of crude oil and 190 bbls of produced water. Immediate notice was given via email to the New Mexico Oil Conservation Division (NMOCD) via email on September 24, 2023. WPX reported the release to the NMOCD on a Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on September 25, 2023, and was subsequently assigned Incident Number nAPP2326847671.

On September 25, 2023, Etech conducted initial site assessment activities which included mapping the observed release footprint, hereafter referred to as the Area of Concern (AOC). **Figure 2 in Appendix A** depicts the AOC. Following the removal of fluids and cleaning of the tank battery containment, on October 17, 2023, Etech conducted a liner inspection following a 48-hour notice to the NMOCD and determined the integrity of the liner was compromised. Continued corrective actions, which include summaries of excavation activities, sampling events, and laboratory analytical results are described below.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

Etech characterized the Site according to 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) considering depth to groundwater and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

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pg. 1



Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring (MW-1) that was drilled by Talon LPE for WPX on December 9, 2020, located approximately ½-mile southeast of the Site on the RDX Federal Com 21-43 well pad. Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 105 feet bgs. No fluids were observed throughout the drilling process nor after a 72-hour observation period. Following the observation period, the boring was plugged and abandoned according to the appropriate regulations. The referenced well records are provided in **Appendix B**. The soil boring location and regional groundwater well locations are shown in **Figure 1A** in **Appendix A**.

All other receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used for the Site characterization are included in **Figure 1B** and **Figure 1C** in **Appendix A**.

Based on the results from the desktop review and estimated regional depth to groundwater at the Site, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria [†]
Chloride	Environmental Protection Agency (EPA) 300.0	20,000 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	2,500 mg/kg
TPH-gasoline range organics (GRO) + TPH-diesel range organics (DRO)	EPA 8021B	1,000 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

[†]The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

DELINEATION SOIL SAMPLING ACTIVITIES

On October 20, 2023, Etech conducted further site assessment by means of delineation activities to assess the presence or absence of impacts associated with the AOC. Nine delineation boreholes (BH01 through BH09) were advanced via hand auger within and around the AOC, including an identified compromised location within the tank battery lined containment. Delineation activities were directed by field screening for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations for delineation soil samples were recorded on soil sampling logs, which is included as **Appendix C**. The location of all delineation soil samples is displayed in **Figure 2** in **Appendix A**. Photographic documentation during delineation activities is included in **Appendix D**.

Delineation soil samples were placed directly into lab provided pre-cleaned glass jars, packaged with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures, to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of COCs.

DELINEATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples collected outside of the AOC indicated all concentrations of the COCs were below the Site Closure Criteria.



Laboratory analytical results for delineation soil samples collected within the AOC indicated one or more of the concentrations of the COCs exceeded the Site Closure Criteria. Laboratory analytical results are summarized in **Table 1** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**.

EXCAVATION SOIL SAMPLING ACTIVITIES

On November 10, 2023, Etech oversaw excavation activities via mechanical equipment to address impacts identified by delineation soil sample laboratory analytical results and visual observation. Excavation soil samples were field screened for VOCs and chloride as previously described.

Following the removal of impacted soil, Etech collected 5-point composite confirmation soil samples at a frequency no greater than 200 square feet from the excavation. Due to the shallow depth of the excavation, soil from the excavation sidewalls were included in floor samples (FS01 through FS06). The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. Excavation confirmation soil samples were handled and analyzed as previously described. The locations of the excavation confirmation soil samples are shown in **Figure 3** in **Appendix A**.

Upon completion of remediation activities, impacted soil was removed from the Site and transported to Northern Delaware Basin Landfill – in Jal, New Mexico under WPX approved manifests. Upon receipt of the final confirmation excavation soil samples results, the excavation was backfilled with clean, locally sourced soil and the Site was restored to “as close to its original state” as possible. Photographic documentation of all Site activities is included in **Appendix D**.

EXCAVATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all excavation confirmation soil samples collected indicated all concentrations of the COCs were below the Site Closure Criteria and/or reclamation standard. Laboratory analytical results are summarized in **Table 1** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**.

DEFERRAL REQUEST

Based on laboratory analytical results, impacts associated with the AOC have been excavated to the maximum extent practical and delineated to meet Site Closure Criteria and/or the reclamation standard. Residual impacts appear to solely reside below the lined tank battery containment up to 4 feet bgs (**Figure 4** in **Appendix A**), which have been vertically and horizontally delineated by the nine soil borings in conjunction with the excavation soil samples. As such, WPX respectfully requests deferral of approximately 576 cubic yards of impacted soil underneath the lined tank battery containment associated with Incident Number nAPP2326847671 until the Site undergoes major facility deconstruction or P&A, whichever comes first. No Further Action appears warranted at this time and the Site should be respectfully considered for Deferral by the NMOCD.

WPX believes the timely initial response and other completed remedial actions have mitigated impacts at the Site and meet the requirements set forth in NMAC regulations to be protective of human health, the environment, and groundwater.



If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or joseph@etechnv.com or Anna Byers at (575) 200-6754 or anna@etechnv.com. Documentation of communication with NMOCD regarding Incident Number nAPP2326847671 is presented as **Attachment G**.

Sincerely,

Etech Environmental and Safety Solutions, Inc.

A handwritten signature in black ink that reads "Anna Byers".

Anna Byers
Senior Geologist

A handwritten signature in black ink that reads "Joseph S. Hernandez".

Joseph S. Hernandez
Senior Managing Geologist

cc: Jim Raley, WPX
New Mexico Oil Conservation Division

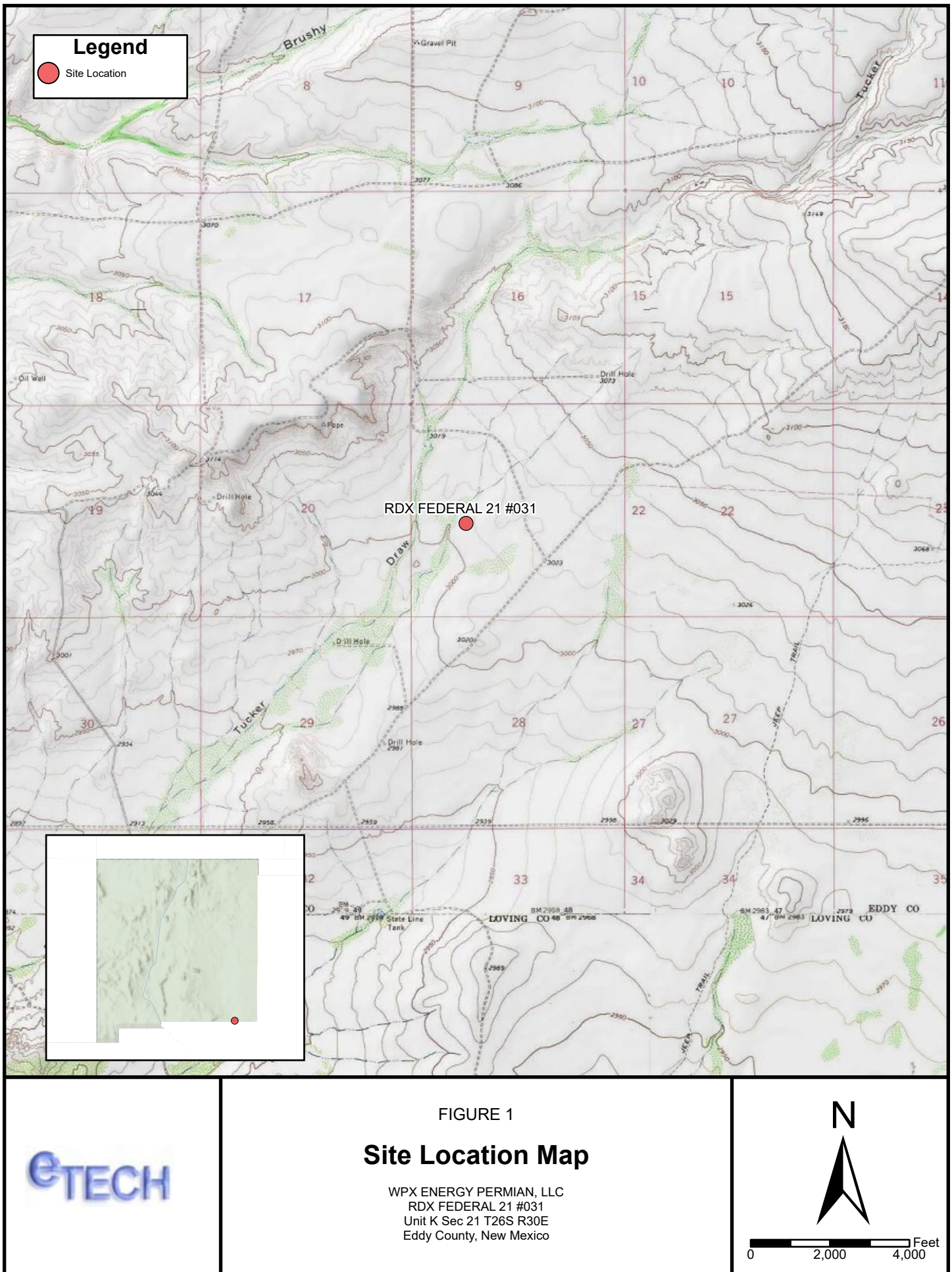
Appendices:

- Appendix A:** Figure 1: Site Map
 - Figure 1A: Site Characterization Map - Groundwater
 - Figure 1B: Site Characterization Map - Surficial Receptors
 - Figure 1C: Site Characterization Map – Subsurface Receptors
 - Figure 2: Delineation Soil Sample Locations
 - Figure 3: Excavation Soil Sample Locations
 - Figure 4: Deferral Area
- Appendix B:** Referenced Well Record
- Appendix C:** Soil Sampling Logs
- Appendix D:** Photographic Log
- Appendix E:** Tables
- Appendix F:** Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix G:** NMOCD Notifications

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APPENDIX A

Figures



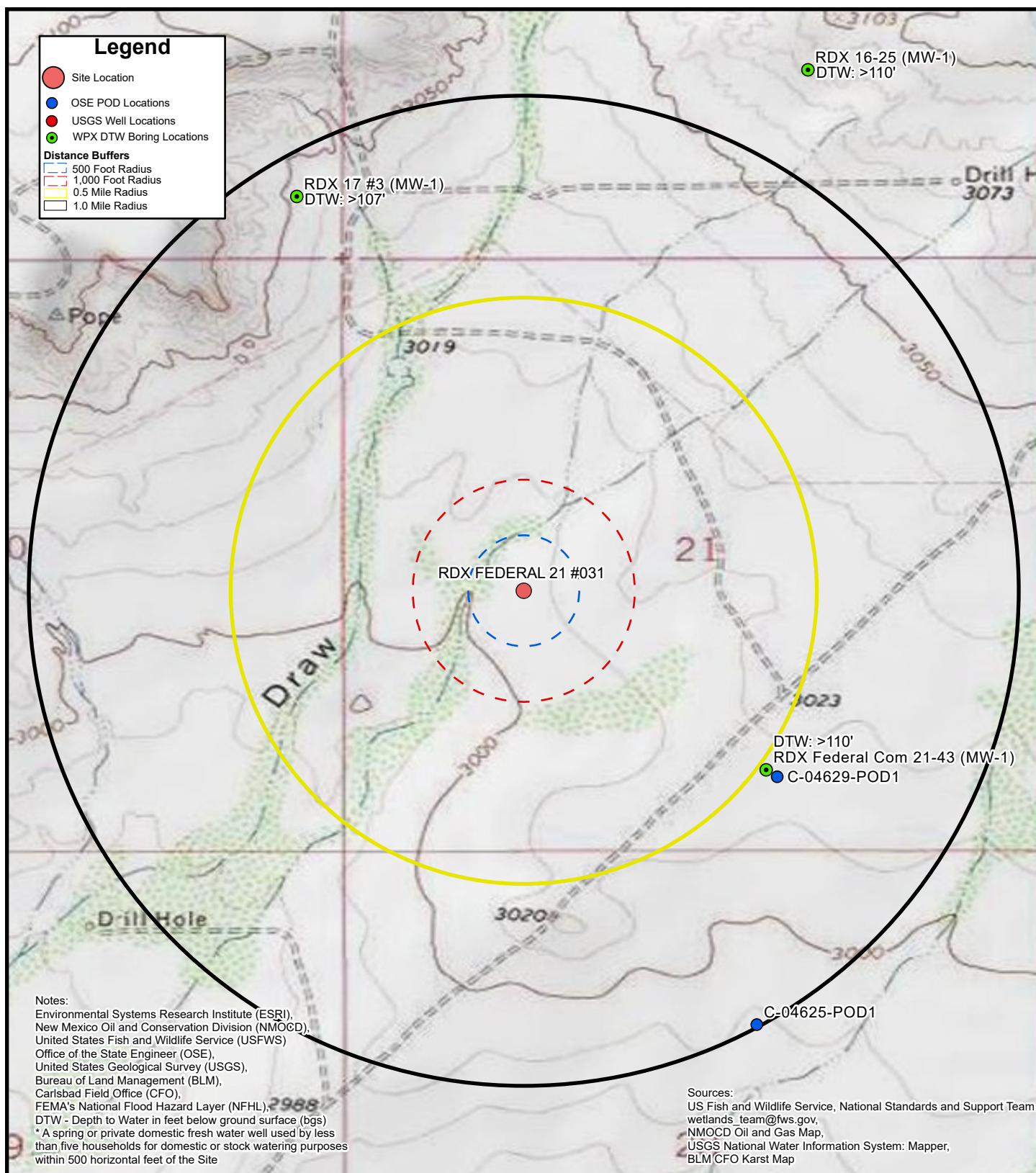
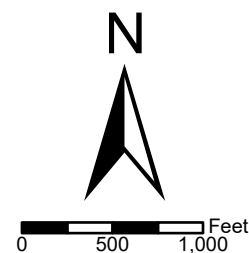


FIGURE 1A Site Characterization Map Ground Water

WPX ENERGY PERMIAN, LLC
 RDX FEDERAL 21 #031
 Unit K Sec 21 T26S R30E
 Eddy County, New Mexico

eTECH



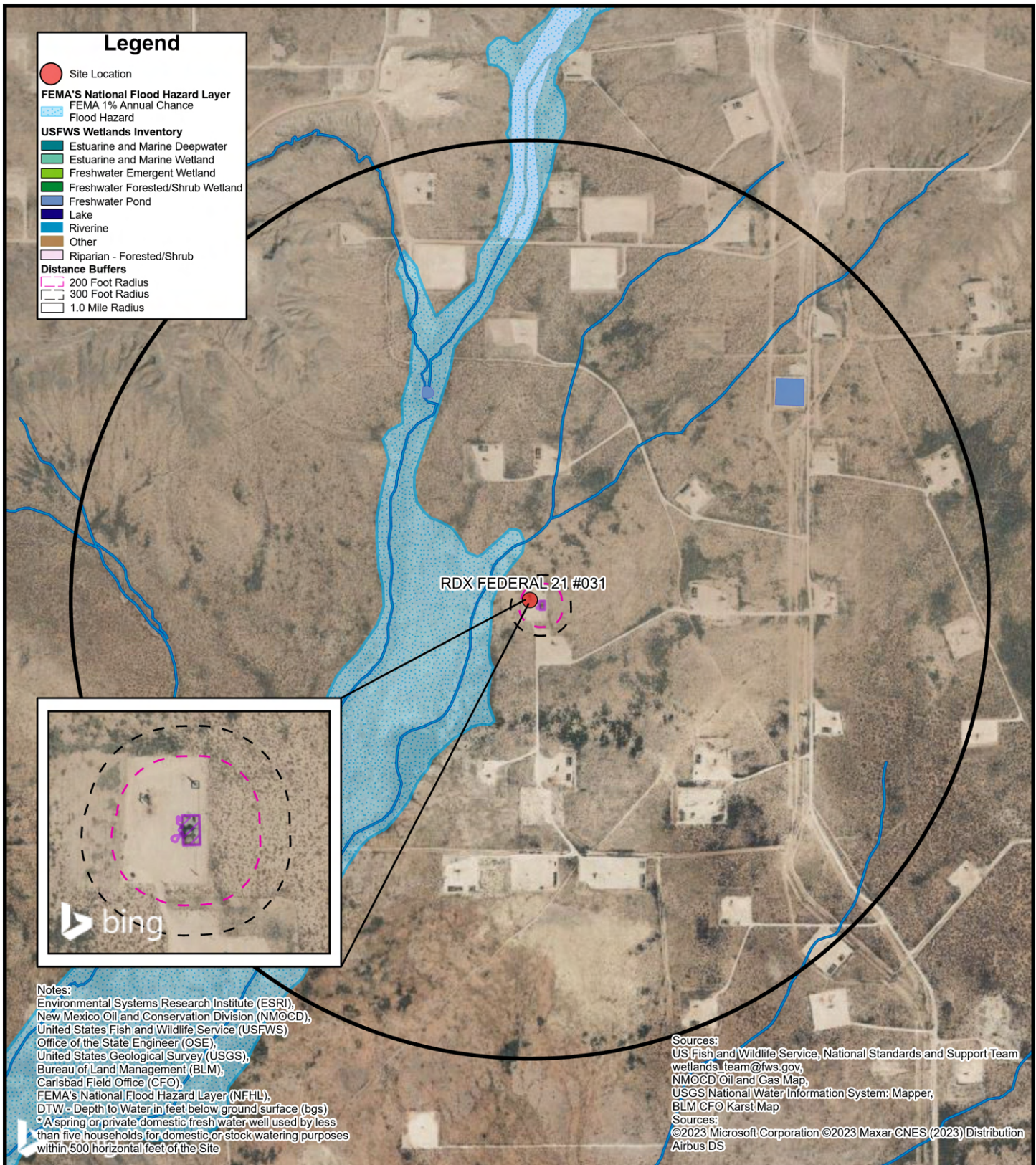
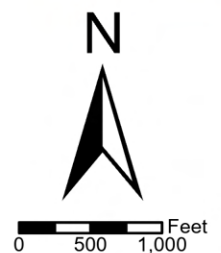


FIGURE 1B
**Site Characterization Map
 Surficial Receptors**

WPX ENERGY PERMIAN, LLC
 RDX FEDERAL 21 #031
 Unit K Sec 21 T26S R30E
 Eddy County, New Mexico



eTECH

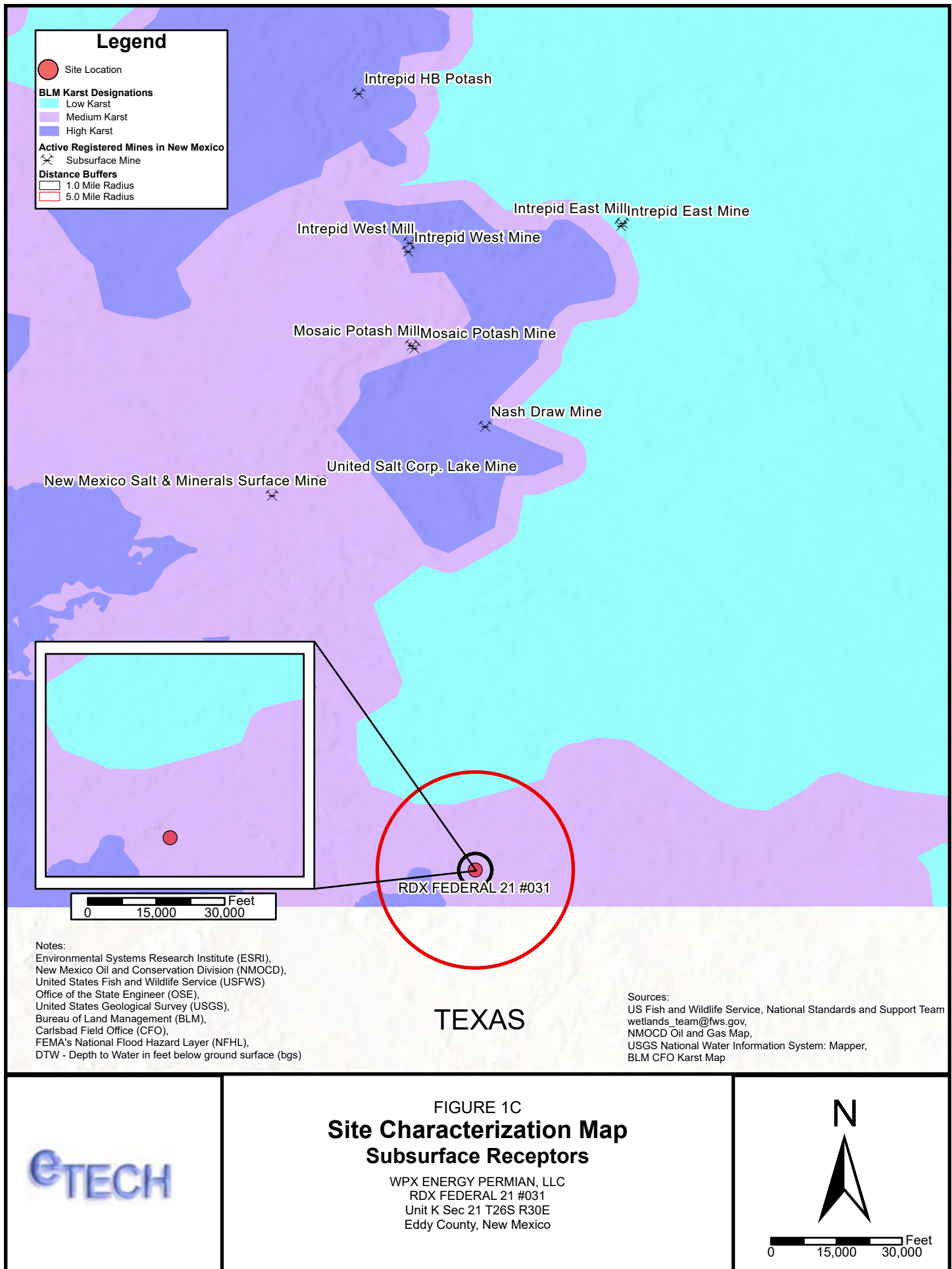
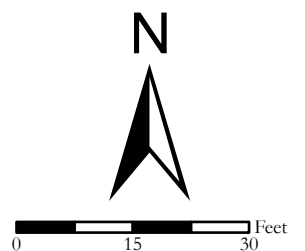




FIGURE 2

Delineation Soil Sample Locations

WPX ENERGY PERMIAN, LLC
RDX FEDERAL 21#031
Unit K Sec 21 T26S R30E
Eddy County, New Mexico



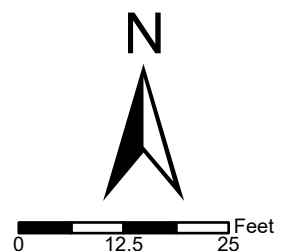
eTECH



FIGURE 3

Excavation Soil Sample Locations

WPX ENERGY PERMIAN, LLC
RDX FEDERAL 21 #031
Unit K Sec 21 T26S R30E
Eddy County, New Mexico



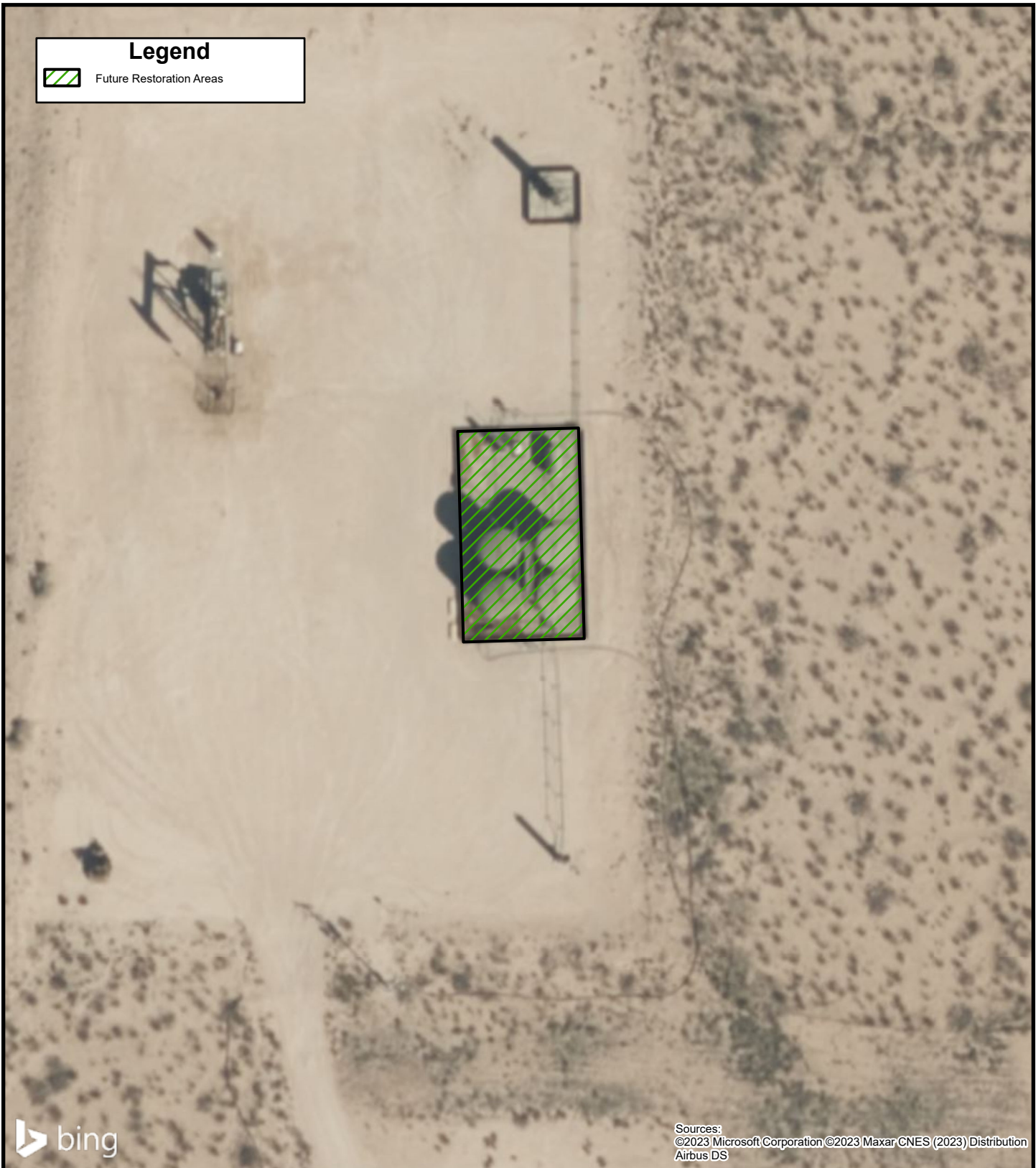
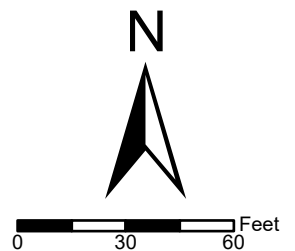


FIGURE 4

Deferral Area


WPX ENERGY PERMIAN, LLC
RDX FEDERAL 21 #031
Unit K Sec 21 T26S R30E
Eddy County, New Mexico

eTECH




APPENDIX B


Referenced Well Record


 HRL COMPLIANCE SOLUTIONS							BORING LOG/MONITORING WELL COMPLETION DIAGRAM										
Drilling Method: Air Rotary							Sampling Method: None			Boring/Well Number: MW-1			Location: RDX Federal Com 21-43				
Gravel Pack Type: 10/20 Sand							Gravel Pack Depth Interval: 3 Bags			Seal Type: None		Seal Depth Interval: None		Date: 12/9/2020		Client: WPX Energy	
Casing Type: PVC							Diameter: 2-inch		Depth Interval: 0-100 feet bgs		Boring Total Depth (ft. BGS): 110			Latitude: 32.022571			
Screen Type: PVC							Slot: 0.010-inch		Diameter: 2-inch		Depth Interval: 100 - 105 ft		Well Total Depth (ft. BGS): 105			Longitude: -103.884371	
														Depth to Water (ft. BTOC): > 105		DTW Date: 12/16/2020	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks				Well Completion				
0	NM	L	D	N	N	NM	SP	NS	Pale orange to tan poorly graded fine sand								
5																	
10																	
15																	
20	NM	H	D	N	N	NM	CL	NS	Pale orange/tan/pale red clay, dry, with silt, fine sand, and minor caliche								
25																	
30																	
35																	
40	NM	L	D	N	N	NM	SP	NS	Pale orange to pale red poorly graded fine sand								
45																	
50																	
55																	
60	NM	L	D	N	N	NM	SP	NS	Golden yellow poorly graded fine sand with minor silt and clay								
65																	
70																	
75																	
80	NM	L	D	N	N	NM	SP	NS	Pale orange to pale red poorly graded fine sand with minor silt/clay								
85																	
90																	
95																	
100	NM	M	D	N	N	NM	SC	NS	Buff to orange color fine sand with medium sand and clay								
85																	
90																	
95																	
95	NM	H	D	N	N	NM	CL	NS	Brown orange clay with silt and fine sand								
100																	
105																	
105																	
100	NM	H	D	N	N	NM	SC	NS	Golden yellow and buff colored clay with fine sand - TD Boring: 110' BGS; Sand 110' - 105' BGS								
105																	


APPENDIX C


Soil Sampling Logs


								Sample Name: BH01		Date: 10/20/2023			
								Site Name: RDX Federal 21 #031					
								Incident Number: nAPP2326847671					
								Job Number: 19048					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Hand Auger			
Site Coordinates: 32.0270042, -103.8903732								Hole Diameter: 3.75"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes					
Moist	3,180	6.0	Yes	BH01	0.5	0	CCHE	(0-1') CALICHE, moist, tan-brown, well graded with silt, fine to coarse grain, trace gravel, brown stain, H-C odor.					
Dry	23,508	5.5	No	BH01	1	1	SW-SM	(1-4') SAND, dry, light brown-brown, well graded with silt, fine grain, trace gravel, no stain, no odor.					
Dry	16,440	0	No		2	2		@2' abundant silt.					
						3							
Dry	6,576	0	No	BH01	4	4							
Total Depth													


								Sample Name: BH02		Date: 10/20/2023	
								Site Name: RDX Federal 21 #031			
								Incident Number: nAPP2326847671			
								Job Number: 19048			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Hand Auger	
Site Coordinates: 32.0270042, -103.8903732								Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Moist	20,704	4.0	Yes	BH02	0.5	0	CCHE	(0-1') CALICHE, moist, tan-brown, well graded with silt, fine to coarse grain, trace gravel, brown stain, H-C odor.			
Dry	9,452	1	No		1	1	SW-SM	(1-2') SAND, dry, light brown-brown, well graded with silt, fine grain, trace gravel, no stain, no odor.			
Dry	480	0	No		2	2	SP-SM	(2-4') SAND, dry, brown, poorly graded with silt, very fine grain, no stain, no odor.			
						3					
Dry	320	0	No	BH02	4	4					
Total Depth											


				Sample Name: BH03		Date: 10/20/2023		
				Site Name: RDX Federal 21 #031				
				Incident Number: nAPP2326847671				
				Job Number: 19048				
LITHOLOGIC / SOIL SAMPLING LOG				Logged By: GM		Method: Hand Auger		
Site Coordinates: 32.0270042, -103.8903732				Hole Diameter: 3.75"		Total Depth: 4'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Moist	14,780	2.0	Yes	BH03	0.5	0	CCHE	(0-1') CALICHE, moist, tan-brown, well graded with silt, fine to coarse grain, trace gravel, brown stain, H-C odor.
Dry	3,452	0.5	No		1	1	SW-SM	(1-4') SAND, dry, light brown-brown, well graded with silt, very fine to fine grain, trace gravel, no stain, no odor.
Dry	<168	0	No		2	2		
						3		
Dry	192	0	No	BH03	4	4		
Total Depth								


								Sample Name: BH04		Date: 10/20/2023	
								Site Name: RDX Federal 21 #031			
								Incident Number: nAPP2326847671			
								Job Number: 19048			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Hand Auger	
Site Coordinates: 32.0270042, -103.8903732								Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<168	0	No	BH04	0.5	0	CCHE	(0-1') CALICHE, dry, tan-brown, well graded with silt, fine to coarse grain, trace gravel, no stain, no odor.			
Dry	<168	0	No		1	1	SP-SM	(1-4') SAND, dry, light brown-brown, poorly graded with silt, fine grain, no stain, no odor.			
Dry	<168	0	No		2	2		@2' abundant silt.			
						3					
Dry	<168	0	No	BH04	4	4					
Total Depth											

								Sample Name: BH05		Date: 10/20/2023	
								Site Name: RDX Federal 21 #031			
								Incident Number: nAPP2326847671			
								Job Number: 19048			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Hand Auger	
Site Coordinates: 32.0270042, -103.8903732								Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<168	0	No	BH05	0.5	0	SP	(0-4') SAND, dry, brown, poorly graded, fine grain, trace silt, no stain, no odor.			
Dry	<168	0	No		1	1					
Dry	<168	0	No		2	2					
						3					
Dry	<168	0	No	BH05	4	4					
Total Depth											

				Sample Name: BH06		Date: 10/20/2023		
				Site Name: RDX Federal 21 #031				
				Incident Number: nAPP2326847671				
				Job Number: 19048				
LITHOLOGIC / SOIL SAMPLING LOG				Logged By: GM		Method: Hand Auger		
Site Coordinates: 32.0270042, -103.8903732				Hole Diameter: 3.75"		Total Depth: 4'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<168	0	No	BH06	0.5	0	SP	(0-4') SAND, dry, brown, poorly graded, fine grain, trace silt, no stain, no odor.
Dry	<168	0	No		1	1		
Dry	<168	0	No		2	2		
						3		
Dry	<168	0	No	BH06	4	4		
Total Depth								

				Sample Name: BH07		Date: 10/20/2023		
				Site Name: RDX Federal 21 #031				
				Incident Number: nAPP2326847671				
				Job Number: 19048				
LITHOLOGIC / SOIL SAMPLING LOG				Logged By: GM		Method: Hand Auger		
Site Coordinates: 32.0270042, -103.8903732				Hole Diameter: 3.75"		Total Depth: 4'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<168	0	No	BH07	0.5	0	CCHE	(0-1') CALICHE, moist, tan-brown, well graded with silt, fine to coarse grain, trace gravel, no stain, no odor.
Dry	<168	0	No		1	1	SP-SM	(1-4') SAND, dry, brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	<168	0	No		2	2		
						3		
Dry	<168	0	No	BH07	4	4		
Total Depth								

					Sample Name: BH08		Date: 10/20/2023	
					Site Name: RDX Federal 21 #031			
					Incident Number: nAPP2326847671			
					Job Number: 19048			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: GM		Method: Hand Auger	
Site Coordinates: 32.0270042, -103.8903732					Hole Diameter: 3.75"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<168	0	No	BH08	0.5	0	CCHE	(0-1') CALICHE, moist, tan-brown, well graded with silt, fine to coarse grain, trace gravel, no stain, no odor.
Dry	<168	0	No	BH08	1	1		
Total Depth								

					Sample Name: BH09		Date: 10/20/2023	
					Site Name: RDX Federal 21 #031			
					Incident Number: nAPP2326847671			
					Job Number: 19048			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: GM		Method: Hand Auger	
Site Coordinates: 32.0270042, -103.8903732					Hole Diameter: 3.75"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<168	0	No	BH09	0.5	0	CCHE	(0-1') CALICHE, moist, tan-brown, well graded with silt, fine to coarse grain, trace gravel, no stain, no odor.
Dry	<168	0	No	BH09	1	1		
Total Depth								

APPENDIX D

Photographic Log

eTECH

PHOTOGRAPHIC LOG

WPX Energy Permian, LLC

RDX Federal 21 #031

Incident Number nAPP2326847671

**Photograph 1****Date: 09/25/2023**

Description: Northeastern view of release prior to remediation activities.

**Photograph 2****Date: 10/17/2023**

Description: Northern view of liner inspection activities, liner breach circled in green.

**Photograph 3****Date: 10/20/2023**

Description: Northern view of delineation activities.

**Photograph 4****Date: 11/15/2023**

Description: Southern view of excavation activities.

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PHOTOGRAPHIC LOG

WPX Energy Permian, LLC

RDX Federal 21 #031

Incident Number nAPP2326847671

Date & Time: Wed, Nov 15, 2023 at 12:22:52 MST
 Position: +032.026777° / -103.890130° (±16.6ft)
 Altitude: 3003ft (±16.2ft)
 Datum: WGS-84
 Azimuth/Bearing: 062° N42E 039mils True (±12°)
 Elevation Angle: -14.5°
 Horizon Angle: +00.2°
 Zoom: 0.5X
 RDX 21-31

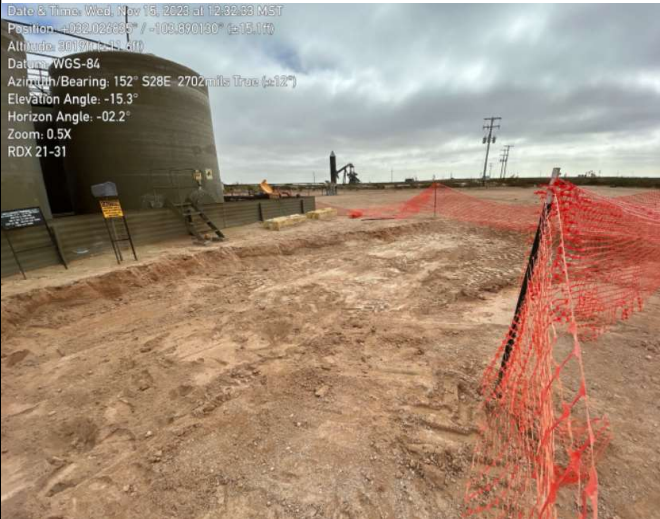


Photograph 5

Date: 11/15/2023

Description: Northeastern view of excavation activities.

Date & Time: Wed, Nov 15, 2023 at 12:33:55 MST
 Position: +032.026777° / -103.890130° (±16.6ft)
 Altitude: 3003ft (±16.2ft)
 Datum: WGS-84
 Azimuth/Bearing: 152° S28E 270mils True (±12°)
 Elevation Angle: -15.3°
 Horizon Angle: -02.2°
 Zoom: 0.5X
 RDX 21-31



Photograph 6

Date: 11/15/2023

Description: Southeastern view of excavation activities.

Date & Time: Thu, Nov 30, 2023 at 09:56:46 MST
 Position: +032.026684° / -103.890228° (±16.4ft)
 Altitude: 3003ft (±16.2ft)
 Datum: WGS-84
 Azimuth/Bearing: 022° N22E 0391mils True (±17°)
 Elevation Angle: -01.7°
 Horizon Angle: -00.5°
 Zoom: 0.5X
 rdx 21-31



Photograph 7

Date: 11/30/2023

Description: Northeastern view of restoration activities.

Date & Time: Thu, Nov 30, 2023 at 09:57:59 MST
 Position: +032.027055° / -103.890068° (±16.4ft)
 Altitude: 3003ft (±16.2ft)
 Datum: WGS-84
 Azimuth/Bearing: 223° S43W 3964mils True (±17°)
 Elevation Angle: -03.9°
 Horizon Angle: -02.2°
 Zoom: 0.5X
 rdx 21-31



Photograph 8

Date: 11/30/2023

Description: Southern view of restoration activities.

APPENDIX E

Tables



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
RDX Federal 21 #031
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples - Incident Number nAPP2326847671										
BH01	10/20/2023	0.5	<0.0250	<0.0500	<20.0	83.5	70.0	83.5	153	3,290
BH01	10/20/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	24,200
BH01	10/20/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	8,170
BH02	10/20/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	18,000
BH02	10/20/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	404
BH03	10/20/2023	0.5	<0.0250	<0.0500	<20.0	1,340	1,080	1,340	2,420	12,300
BH03	10/20/2023	4	<0.0250	<0.0500	<20.0	43.8	<50.0	43.8	43.8	<400
BH04	10/20/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	179
BH04	10/20/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	211
BH05	10/20/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH05	10/20/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH06	10/20/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH06	10/20/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	218
BH07	10/20/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	123
BH07	10/20/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	238
BH08	10/20/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	107
BH08	10/20/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH09	10/20/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH09	10/20/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
Excavation Soil Samples - Incident Number nAPP2326847671										
FS01	11/15/23	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
FS02	11/15/23	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS03	11/15/23	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS04	11/15/23	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS05	11/15/23	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS06	11/15/23	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
GRO: Gasoline Range Organics
DRO: Diesel Range Organics

ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
NMOCD: New Mexico Oil Conservation Division
NMAC: New Mexico Administrative Code
Text in "grey" represents excavated soil samples

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard¹ for Soils Impacted by a Release

¹ The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX Federal 21 #031

Work Order: E310223

Job Number: 01058-0007

Received: 10/24/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/31/23

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: 10/31/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX Federal 21 #031
Workorder: E310223
Date Received: 10/24/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/24/2023 8:20:00AM, under the Project Name: RDX Federal 21 #031.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #031 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

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Laboratory Administrator
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDx Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/31/23 11:35

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 0.5'	E310223-01A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.
BH01 1'	E310223-02A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.
BH01 4'	E310223-03A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.
BH02 0.5'	E310223-04A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.
BH02 4'	E310223-05A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.
BH03 0.5'	E310223-06A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.
BH03 4'	E310223-07A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/31/2023 11:35:35AM

BH01 0.5'

E310223-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Benzene	ND	0.0250	1	10/24/23	10/24/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/24/23	
Toluene	ND	0.0250	1	10/24/23	10/24/23	
o-Xylene	ND	0.0250	1	10/24/23	10/24/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/24/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/24/23	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	10/24/23	10/24/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.7 %	70-130	10/24/23	10/24/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/24/23	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	10/24/23	10/24/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.7 %	70-130	10/24/23	10/24/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343069
Diesel Range Organics (C10-C28)	83.5	25.0	1	10/25/23	10/26/23	
Oil Range Organics (C28-C36)	70.0	50.0	1	10/25/23	10/26/23	
<i>Surrogate: n-Nonane</i>		80.8 %	50-200	10/25/23	10/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2343073
Chloride	3290	40.0	2	10/25/23	10/26/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/31/2023 11:35:35AM

BH01 1'

E310223-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Benzene	ND	0.0250	1	10/24/23	10/24/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/24/23	
Toluene	ND	0.0250	1	10/24/23	10/24/23	
o-Xylene	ND	0.0250	1	10/24/23	10/24/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/24/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		101 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		101 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343069
Diesel Range Organics (C10-C28)	ND	25.0	1	10/25/23	10/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/25/23	10/26/23	
Surrogate: n-Nonane		80.8 %	50-200	10/25/23	10/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2343073
Chloride	24200	2000	100	10/25/23	10/26/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/31/2023 11:35:35AM

BH01 4'

E310223-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Benzene	ND	0.0250	1	10/24/23	10/24/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/24/23	
Toluene	ND	0.0250	1	10/24/23	10/24/23	
o-Xylene	ND	0.0250	1	10/24/23	10/24/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/24/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		100 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		100 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343069
Diesel Range Organics (C10-C28)	ND	25.0	1	10/25/23	10/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/25/23	10/26/23	
Surrogate: n-Nonane		73.3 %	50-200	10/25/23	10/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2343073
Chloride	8170	1000	50	10/25/23	10/26/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/31/2023 11:35:35AM

BH02 0.5'

E310223-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Benzene	ND	0.0250	1	10/24/23	10/24/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/24/23	
Toluene	ND	0.0250	1	10/24/23	10/24/23	
o-Xylene	ND	0.0250	1	10/24/23	10/24/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/24/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		99.7 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		99.7 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343069
Diesel Range Organics (C10-C28)	ND	25.0	1	10/25/23	10/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/25/23	10/26/23	
Surrogate: n-Nonane		78.6 %	50-200	10/25/23	10/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2343073
Chloride	18000	2000	100	10/25/23	10/26/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/31/2023 11:35:35AM

BH02 4'

E310223-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Benzene	ND	0.0250	1	10/24/23	10/24/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/24/23	
Toluene	ND	0.0250	1	10/24/23	10/24/23	
o-Xylene	ND	0.0250	1	10/24/23	10/24/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/24/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		101 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		101 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343069
Diesel Range Organics (C10-C28)	ND	25.0	1	10/25/23	10/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/25/23	10/26/23	
Surrogate: n-Nonane		79.9 %	50-200	10/25/23	10/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2343073
Chloride	404	400	20	10/25/23	10/26/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/31/2023 11:35:35AM

BH03 0.5'

E310223-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Benzene	ND	0.0250	1	10/24/23	10/24/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/24/23	
Toluene	ND	0.0250	1	10/24/23	10/24/23	
o-Xylene	ND	0.0250	1	10/24/23	10/24/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/24/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		100 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		100 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343069
Diesel Range Organics (C10-C28)	1340	50.0	2	10/25/23	10/26/23	
Oil Range Organics (C28-C36)	1080	100	2	10/25/23	10/26/23	
Surrogate: n-Nonane		80.8 %	50-200	10/25/23	10/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2343073
Chloride	12300	1000	50	10/25/23	10/26/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/31/2023 11:35:35AM

BH03 4'

E310223-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Benzene	ND	0.0250	1	10/24/23	10/24/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/24/23	
Toluene	ND	0.0250	1	10/24/23	10/24/23	
o-Xylene	ND	0.0250	1	10/24/23	10/24/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/24/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		100 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		100 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343069
Diesel Range Organics (C10-C28)	43.8	25.0	1	10/25/23	10/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/25/23	10/26/23	
Surrogate: n-Nonane		81.0 %	50-200	10/25/23	10/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2343073
Chloride	ND	400	20	10/25/23	10/26/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/31/2023 11:35:35AM

Volatile Organic Compounds by EPA 8260B

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
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Blank (2343041-BLK1)

Prepared: 10/24/23 Analyzed: 10/24/23

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	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS (2343041-BS1)

Prepared: 10/24/23 Analyzed: 10/24/23

Benzene	2.15	0.0250	2.50		86.0	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.8	70-130			
Toluene	2.20	0.0250	2.50		88.0	70-130			
o-Xylene	2.32	0.0250	2.50		92.7	70-130			
p,m-Xylene	4.54	0.0500	5.00		90.8	70-130			
Total Xylenes	6.86	0.0250	7.50		91.5	70-130			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

Matrix Spike (2343041-MS1)

Source: E310221-22

Prepared: 10/24/23 Analyzed: 10/24/23

Benzene	2.30	0.0250	2.50	ND	92.1	48-131			
Ethylbenzene	2.34	0.0250	2.50	ND	93.4	45-135			
Toluene	2.26	0.0250	2.50	ND	90.4	48-130			
o-Xylene	2.34	0.0250	2.50	ND	93.6	43-135			
p,m-Xylene	4.58	0.0500	5.00	ND	91.6	43-135			
Total Xylenes	6.92	0.0250	7.50	ND	92.2	43-135			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			

Matrix Spike Dup (2343041-MSD1)

Source: E310221-22

Prepared: 10/24/23 Analyzed: 10/24/23

Benzene	2.39	0.0250	2.50	ND	95.7	48-131	3.79	23	
Ethylbenzene	2.44	0.0250	2.50	ND	97.7	45-135	4.50	27	
Toluene	2.39	0.0250	2.50	ND	95.5	48-130	5.44	24	
o-Xylene	2.41	0.0250	2.50	ND	96.4	43-135	2.99	27	
p,m-Xylene	4.74	0.0500	5.00	ND	94.8	43-135	3.49	27	
Total Xylenes	7.15	0.0250	7.50	ND	95.3	43-135	3.32	27	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/31/2023 11:35:35AM

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
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Blank (2343041-BLK1)

Prepared: 10/24/23 Analyzed: 10/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS (2343041-BS2)

Prepared: 10/24/23 Analyzed: 10/24/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike (2343041-MS2)

Source: E310221-22

Prepared: 10/24/23 Analyzed: 10/24/23

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0	ND	93.0	70-130			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

Matrix Spike Dup (2343041-MSD2)

Source: E310221-22

Prepared: 10/24/23 Analyzed: 10/24/23

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130	9.61	20	
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/31/2023 11:35:35AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2343069-BLK1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.7		50.0		83.3	50-200			

LCS (2343069-BS1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Diesel Range Organics (C10-C28)	242	25.0	250		96.8	38-132			
Surrogate: n-Nonane	43.6		50.0		87.3	50-200			

Matrix Spike (2343069-MS1)					Source: E310223-03		Prepared: 10/25/23 Analyzed: 10/26/23		
Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.2	38-132			
Surrogate: n-Nonane	40.5		50.0		81.0	50-200			

Matrix Spike Dup (2343069-MSD1)					Source: E310223-03		Prepared: 10/25/23 Analyzed: 10/26/23		
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.1	38-132	8.25	20	
Surrogate: n-Nonane	44.8		50.0		89.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/31/2023 11:35:35AM

Anions by EPA 300.0/9056A

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 (2343073-BLK1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	ND	20.0							
LCS (2343073-BS1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2343073-MS1)					Source: E310223-04		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	17400	2000	250	18000	NR	80-120			M4
Matrix Spike Dup (2343073-MSD1)					Source: E310223-04		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	18800	2000	250	18000	324	80-120	7.77	20	M4

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:	RDX Federal 21 #031	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/31/23 11:35

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- 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.


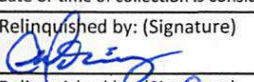
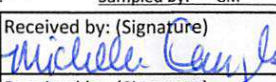
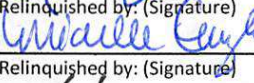
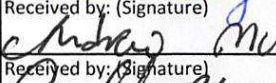
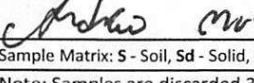
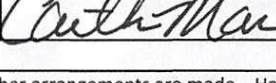
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC				Bill To		Lab Use Only				TAT				EPA Program								
Project: RDX Federal 21 #031				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA							
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E 310223		00580007					5 Day TAT									
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220		Analysis and Method									RCRA							
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDOC TX	State						
Phone: 832-541-7719				Email: jim.raley@dvn.com												NM	CO	UT	AZ	TX		
Email: Devon-team@etechenv.com				WBS/WO: 21231901												x						
Collected by: Gilbert Moreno				Incident ID: nAPP2326847671												Remarks						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
9:00	10.20.23	S	1	BH01	1	0.5'							X									
9:10	10.20.23	S	1	BH01	2	1'							X									
9:20	10.20.23	S	1	BH01	3	4'							X									
9:30	10.20.23	S	1	BH02	4	0.5'							X									
9:40	10.20.23	S	1	BH02	5	4'							X									
9:50	10.20.23	S	1	BH03	6	0.5'							X									
10:00	10.20.23	S	1	BH03	7	4'							X									
																						
Additional Instructions:																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										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.												
Sampled by: GM																						
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only										
		10.23.23		09:30				10.23.23		0930		Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3										
		10.23.23		1830				10.23.23		1830												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C										
		10.23.23		2400				10.24.23		8:20		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 30 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: 10/24/2023 11:19:58AM

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:	10/24/23 08:20	Work Order ID:	E310223
Phone:	(539) 573-4018	Date Logged In:	10/23/23 15:32	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/30/23 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? Yes

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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX Federal 21 #031

Work Order: E310226

Job Number: 01058-0007

Received: 10/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/30/23

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: 10/30/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX Federal 21 #031
Workorder: E310226
Date Received: 10/24/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/24/2023 8:20:00AM, under the Project Name: RDX Federal 21 #031.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #031 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

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Lynn Jarboe
Laboratory Technical Representative
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Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Golzaes
Client Representative
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/23 16:14

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 0.5'	E310226-01A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.
BH04 4'	E310226-02A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/30/2023 4:14:55PM

BH04 0.5'

E310226-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343044
Benzene	ND	0.0250	1	10/24/23	10/26/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/26/23	
Toluene	ND	0.0250	1	10/24/23	10/26/23	
o-Xylene	ND	0.0250	1	10/24/23	10/26/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/26/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/26/23	
Surrogate: 4-Bromochlorobenzene-PID	95.1 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343044
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.0 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343069
Diesel Range Organics (C10-C28)	ND	25.0	1	10/25/23	10/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/25/23	10/26/23	
Surrogate: n-Nonane	80.7 %	50-200		10/25/23	10/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2343073
Chloride	179	40.0	2	10/25/23	10/26/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/30/2023 4:14:55PM

BH04 4'

E310226-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343044
Benzene	ND	0.0250	1	10/24/23	10/26/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/26/23	
Toluene	ND	0.0250	1	10/24/23	10/26/23	
o-Xylene	ND	0.0250	1	10/24/23	10/26/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/26/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343044
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.1 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343069
Diesel Range Organics (C10-C28)	ND	25.0	1	10/25/23	10/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/25/23	10/26/23	
<i>Surrogate: n-Nonane</i>						
	81.9 %	50-200		10/25/23	10/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2343073
Chloride	211	200	10	10/25/23	10/26/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:14:55PM

Volatile Organics by EPA 8021B

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
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Blank (2343044-BLK1)

Prepared: 10/24/23 Analyzed: 10/26/23

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	7.67		8.00		95.9	70-130			

LCS (2343044-BS1)

Prepared: 10/24/23 Analyzed: 10/26/23

Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	5.04	0.0250	5.00		101	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.1	70-130			

Matrix Spike (2343044-MS1)

Source: E310226-02

Prepared: 10/24/23 Analyzed: 10/26/23

Benzene	5.30	0.0250	5.00	ND	106	54-133			
Ethylbenzene	5.22	0.0250	5.00	ND	104	61-133			
Toluene	5.29	0.0250	5.00	ND	106	61-130			
o-Xylene	5.22	0.0250	5.00	ND	104	63-131			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
Total Xylenes	15.8	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			

Matrix Spike Dup (2343044-MSD1)

Source: E310226-02

Prepared: 10/24/23 Analyzed: 10/26/23

Benzene	5.44	0.0250	5.00	ND	109	54-133	2.60	20	
Ethylbenzene	5.37	0.0250	5.00	ND	107	61-133	2.77	20	
Toluene	5.43	0.0250	5.00	ND	108	61-130	2.59	20	
o-Xylene	5.37	0.0250	5.00	ND	107	63-131	2.73	20	
p,m-Xylene	10.9	0.0500	10.0	ND	109	63-131	2.61	20	
Total Xylenes	16.3	0.0250	15.0	ND	108	63-131	2.65	20	
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:14:55PM

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
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Blank (2343044-BLK1) Prepared: 10/24/23 Analyzed: 10/26/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

LCS (2343044-BS2) Prepared: 10/24/23 Analyzed: 10/26/23

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130			

Matrix Spike (2343044-MS2) Source: E310226-02 Prepared: 10/24/23 Analyzed: 10/26/23

Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			

Matrix Spike Dup (2343044-MSD2) Source: E310226-02 Prepared: 10/24/23 Analyzed: 10/26/23

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130	1.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:14:55PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2343069-BLK1) Prepared: 10/25/23 Analyzed: 10/26/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.7		50.0		83.3	50-200			

LCS (2343069-BS1) Prepared: 10/25/23 Analyzed: 10/26/23

Diesel Range Organics (C10-C28)	242	25.0	250		96.8	38-132			
Surrogate: n-Nonane	43.6		50.0		87.3	50-200			

Matrix Spike (2343069-MS1) Source: E310223-03 Prepared: 10/25/23 Analyzed: 10/26/23

Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.2	38-132			
Surrogate: n-Nonane	40.5		50.0		81.0	50-200			

Matrix Spike Dup (2343069-MSD1) Source: E310223-03 Prepared: 10/25/23 Analyzed: 10/26/23

Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.1	38-132	8.25	20	
Surrogate: n-Nonane	44.8		50.0		89.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:14:55PM

Anions by EPA 300.0/9056A

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 (2343073-BLK1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	ND	20.0							
LCS (2343073-BS1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2343073-MS1)					Source: E310223-04		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	17400	2000	250	18000	NR	80-120			M4
Matrix Spike Dup (2343073-MSD1)					Source: E310223-04		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	18800	2000	250	18000	324	80-120	7.77	20	M4

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:	RDX Federal 21 #031	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/23 16:14

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- 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.



Envirotech Analytical Laboratory

Printed: 10/24/2023 11:31:56AM

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:	10/24/23 08:20	Work Order ID:	E310226
Phone:	(539) 573-4018	Date Logged In:	10/23/23 15:37	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/30/23 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? Yes

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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX Federal 21 #031

Work Order: E310228

Job Number: 01058-0007

Received: 10/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/30/23

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: 10/30/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX Federal 21 #031
Workorder: E310228
Date Received: 10/24/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/24/2023 8:20:00AM, under the Project Name: RDX Federal 21 #031.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #031 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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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/23 16:19

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 0.5'	E310228-01A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.
BH05 4'	E310228-02A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.
BH06 0.5'	E310228-03A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.
BH06 4'	E310228-04A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/30/2023 4:19:10PM

BH05 0.5'

E310228-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343044
Benzene	ND	0.0250	1	10/24/23	10/26/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/26/23	
Toluene	ND	0.0250	1	10/24/23	10/26/23	
o-Xylene	ND	0.0250	1	10/24/23	10/26/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/26/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/26/23	
Surrogate: 4-Bromochlorobenzene-PID	96.4 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343044
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.6 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343069
Diesel Range Organics (C10-C28)	ND	25.0	1	10/25/23	10/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/25/23	10/26/23	
Surrogate: n-Nonane	82.5 %	50-200		10/25/23	10/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2343073
Chloride	ND	20.0	1	10/25/23	10/27/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/30/2023 4:19:10PM

BH05 4'

E310228-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2343044	
Benzene	ND	0.0250	1	10/24/23	10/26/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/26/23	
Toluene	ND	0.0250	1	10/24/23	10/26/23	
o-Xylene	ND	0.0250	1	10/24/23	10/26/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/26/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.3 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2343044	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.5 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2343069	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/25/23	10/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/25/23	10/26/23	
<i>Surrogate: n-Nonane</i>	85.6 %	50-200		10/25/23	10/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2343073	
Chloride	ND	20.0	1	10/25/23	10/27/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/30/2023 4:19:10PM

BH06 0.5'

E310228-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343044
Benzene	ND	0.0250	1	10/24/23	10/26/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/26/23	
Toluene	ND	0.0250	1	10/24/23	10/26/23	
o-Xylene	ND	0.0250	1	10/24/23	10/26/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/26/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343044
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343069
Diesel Range Organics (C10-C28)	ND	25.0	1	10/25/23	10/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/25/23	10/26/23	
<i>Surrogate: n-Nonane</i>						
	82.4 %	50-200		10/25/23	10/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2343073
Chloride	ND	40.0	2	10/25/23	10/27/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/30/2023 4:19:10PM

BH06 4'

E310228-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343044
Benzene	ND	0.0250	1	10/24/23	10/26/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/26/23	
Toluene	ND	0.0250	1	10/24/23	10/26/23	
o-Xylene	ND	0.0250	1	10/24/23	10/26/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/26/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343044
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343069
Diesel Range Organics (C10-C28)	ND	25.0	1	10/25/23	10/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/25/23	10/26/23	
<i>Surrogate: n-Nonane</i>						
	84.1 %	50-200		10/25/23	10/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2343073
Chloride	218	20.0	1	10/25/23	10/27/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:19:10PM

Volatile Organics by EPA 8021B

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
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Blank (2343044-BLK1)

Prepared: 10/24/23 Analyzed: 10/26/23

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	7.67		8.00		95.9	70-130			

LCS (2343044-BS1)

Prepared: 10/24/23 Analyzed: 10/26/23

Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	5.04	0.0250	5.00		101	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.1	70-130			

Matrix Spike (2343044-MS1)

Source: E310226-02

Prepared: 10/24/23 Analyzed: 10/26/23

Benzene	5.30	0.0250	5.00	ND	106	54-133			
Ethylbenzene	5.22	0.0250	5.00	ND	104	61-133			
Toluene	5.29	0.0250	5.00	ND	106	61-130			
o-Xylene	5.22	0.0250	5.00	ND	104	63-131			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
Total Xylenes	15.8	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			

Matrix Spike Dup (2343044-MSD1)

Source: E310226-02

Prepared: 10/24/23 Analyzed: 10/26/23

Benzene	5.44	0.0250	5.00	ND	109	54-133	2.60	20	
Ethylbenzene	5.37	0.0250	5.00	ND	107	61-133	2.77	20	
Toluene	5.43	0.0250	5.00	ND	108	61-130	2.59	20	
o-Xylene	5.37	0.0250	5.00	ND	107	63-131	2.73	20	
p,m-Xylene	10.9	0.0500	10.0	ND	109	63-131	2.61	20	
Total Xylenes	16.3	0.0250	15.0	ND	108	63-131	2.65	20	
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:19:10PM

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
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Blank (2343044-BLK1)					Prepared: 10/24/23 Analyzed: 10/26/23				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

LCS (2343044-BS2)					Prepared: 10/24/23 Analyzed: 10/26/23				
Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130			

Matrix Spike (2343044-MS2)					Source: E310226-02	Prepared: 10/24/23 Analyzed: 10/26/23			
Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			

Matrix Spike Dup (2343044-MSD2)					Source: E310226-02	Prepared: 10/24/23 Analyzed: 10/26/23			
Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130	1.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:19:10PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2343069-BLK1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.7		50.0		83.3	50-200			

LCS (2343069-BS1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Diesel Range Organics (C10-C28)	242	25.0	250		96.8	38-132			
Surrogate: n-Nonane	43.6		50.0		87.3	50-200			

Matrix Spike (2343069-MS1)					Source: E310223-03		Prepared: 10/25/23 Analyzed: 10/26/23		
Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.2	38-132			
Surrogate: n-Nonane	40.5		50.0		81.0	50-200			

Matrix Spike Dup (2343069-MSD1)					Source: E310223-03		Prepared: 10/25/23 Analyzed: 10/26/23		
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.1	38-132	8.25	20	
Surrogate: n-Nonane	44.8		50.0		89.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:19:10PM

Anions by EPA 300.0/9056A

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 (2343073-BLK1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	ND	20.0							
LCS (2343073-BS1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2343073-MS1)					Source: E310223-04		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	17400	2000	250	18000	NR	80-120			M4
Matrix Spike Dup (2343073-MSD1)					Source: E310223-04		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	18800	2000	250	18000	324	80-120	7.77	20	M4

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:	RDX Federal 21 #031	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/23 16:19

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- 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: WPX Energy Permian, LLC		Bill To		Lab Use Only		TAT		EPA Program					
Project: RDX Federal 21 #031		Attention: Jim Raley		Lab WO# E310228		Job Number 010580007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno		Address: 5315 Buena Vista Dr.		E310228		010580007					5 Day TAT		
Address: 13000 W County Rd 100		City, State, Zip: Carlsbad, NM, 88220		Analysis and Method								RCRA	
City, State, Zip: Odessa, TX, 79765		Phone: 575-885-7502											
Phone: 832-541-7719		Email: jim.raley@divn.com											
Email: Devon-team@etechenv.com		WBS/WO: 21231901											
Collected by: Gilbert Moreno		Incident ID: nAPP2326847671											

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDOC TX	Remarks
10:30	10.20.23	S	1	BH05	1	0.5'								X		
10:40	10.20.23	S	1	BH05	2	4'								X		
10:50	10.20.23	S	1	BH06	3	0.5'								X		
11:00	10.20.23	S	1	BH06	4	4'								X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: GM

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 5°C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>Calvin</i>	10.23.23	09:30	<i>Michelle Gayle</i>	10.23.23	09:30	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Michelle Gayle</i>	10.23.23	18:30	<i>Andrew Muzzo</i>	10.23.23	18:30	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Andrew Muzzo</i>	10.23.23	24:00	<i>Carth Muzzo</i>	10.24.23	8:20	

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 30 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

Envirotech Analytical Laboratory

Printed: 10/24/2023 11:38:23AM

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:	10/24/23 08:20	Work Order ID:	E310228
Phone:	(539) 573-4018	Date Logged In:	10/23/23 15:40	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/30/23 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? Yes

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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX Federal 21 #031

Work Order: E310225

Job Number: 01058-0007

Received: 10/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/30/23

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: 10/30/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX Federal 21 #031
Workorder: E310225
Date Received: 10/24/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/24/2023 8:20:00AM, under the Project Name: RDX Federal 21 #031.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #031 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

Raina Schwanz
Laboratory Administrator
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/23 16:13

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH07 0.5'	E310225-01A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.
BH07 4'	E310225-02A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/30/2023 4:13:30PM

BH07 0.5'

E310225-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Benzene	ND	0.0250	1	10/24/23	10/24/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/24/23	
Toluene	ND	0.0250	1	10/24/23	10/24/23	
o-Xylene	ND	0.0250	1	10/24/23	10/24/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/24/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene	102 %	70-130		10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/24/23	10/24/23	
Surrogate: Toluene-d8	100 %	70-130		10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene	102 %	70-130		10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/24/23	10/24/23	
Surrogate: Toluene-d8	100 %	70-130		10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343069
Diesel Range Organics (C10-C28)	ND	25.0	1	10/25/23	10/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/25/23	10/26/23	
Surrogate: n-Nonane	82.7 %	50-200		10/25/23	10/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2343073
Chloride	123	20.0	1	10/25/23	10/26/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/30/2023 4:13:30PM

BH07 4'

E310225-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Benzene	ND	0.0250	1	10/24/23	10/24/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/24/23	
Toluene	ND	0.0250	1	10/24/23	10/24/23	
o-Xylene	ND	0.0250	1	10/24/23	10/24/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/24/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		104 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		104 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343069
Diesel Range Organics (C10-C28)	ND	25.0	1	10/25/23	10/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/25/23	10/26/23	
Surrogate: n-Nonane		83.2 %	50-200	10/25/23	10/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2343073
Chloride	238	200	10	10/25/23	10/26/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:13:30PM

Volatile Organic Compounds by EPA 8260B

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
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Blank (2343041-BLK1)

Prepared: 10/24/23 Analyzed: 10/24/23

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	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS (2343041-BS1)

Prepared: 10/24/23 Analyzed: 10/24/23

Benzene	2.15	0.0250	2.50		86.0	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.8	70-130			
Toluene	2.20	0.0250	2.50		88.0	70-130			
o-Xylene	2.32	0.0250	2.50		92.7	70-130			
p,m-Xylene	4.54	0.0500	5.00		90.8	70-130			
Total Xylenes	6.86	0.0250	7.50		91.5	70-130			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

Matrix Spike (2343041-MS1)

Source: E310221-22

Prepared: 10/24/23 Analyzed: 10/24/23

Benzene	2.30	0.0250	2.50	ND	92.1	48-131			
Ethylbenzene	2.34	0.0250	2.50	ND	93.4	45-135			
Toluene	2.26	0.0250	2.50	ND	90.4	48-130			
o-Xylene	2.34	0.0250	2.50	ND	93.6	43-135			
p,m-Xylene	4.58	0.0500	5.00	ND	91.6	43-135			
Total Xylenes	6.92	0.0250	7.50	ND	92.2	43-135			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			

Matrix Spike Dup (2343041-MSD1)

Source: E310221-22

Prepared: 10/24/23 Analyzed: 10/24/23

Benzene	2.39	0.0250	2.50	ND	95.7	48-131	3.79	23	
Ethylbenzene	2.44	0.0250	2.50	ND	97.7	45-135	4.50	27	
Toluene	2.39	0.0250	2.50	ND	95.5	48-130	5.44	24	
o-Xylene	2.41	0.0250	2.50	ND	96.4	43-135	2.99	27	
p,m-Xylene	4.74	0.0500	5.00	ND	94.8	43-135	3.49	27	
Total Xylenes	7.15	0.0250	7.50	ND	95.3	43-135	3.32	27	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:13:30PM

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
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Blank (2343041-BLK1)

Prepared: 10/24/23 Analyzed: 10/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS (2343041-BS2)

Prepared: 10/24/23 Analyzed: 10/24/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike (2343041-MS2)

Source: E310221-22

Prepared: 10/24/23 Analyzed: 10/24/23

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0	ND	93.0	70-130			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

Matrix Spike Dup (2343041-MSD2)

Source: E310221-22

Prepared: 10/24/23 Analyzed: 10/24/23

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130	9.61	20	
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:13:30PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2343069-BLK1)

Prepared: 10/25/23 Analyzed: 10/26/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.7		50.0		83.3	50-200			

LCS (2343069-BS1)

Prepared: 10/25/23 Analyzed: 10/26/23

Diesel Range Organics (C10-C28)	242	25.0	250		96.8	38-132			
Surrogate: n-Nonane	43.6		50.0		87.3	50-200			

Matrix Spike (2343069-MS1)

Source: E310223-03

Prepared: 10/25/23 Analyzed: 10/26/23

Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.2	38-132			
Surrogate: n-Nonane	40.5		50.0		81.0	50-200			

Matrix Spike Dup (2343069-MSD1)

Source: E310223-03

Prepared: 10/25/23 Analyzed: 10/26/23

Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.1	38-132	8.25	20	
Surrogate: n-Nonane	44.8		50.0		89.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:13:30PM

Anions by EPA 300.0/9056A

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 (2343073-BLK1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	ND	20.0							
LCS (2343073-BS1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2343073-MS1)					Source: E310223-04		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	17400	2000	250	18000	NR	80-120			M4
Matrix Spike Dup (2343073-MSD1)					Source: E310223-04		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	18800	2000	250	18000	324	80-120	7.77	20	M4

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:	RDX Federal 21 #031	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/23 16:13

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- 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.



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC				Bill To		Lab Use Only				TAT				EPA Program											
Project: RDX Federal 21 #031				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA										
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E310225		010580007					5 Day TAT												
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220		Analysis and Method									RCRA										
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	TX	GDOC									
Phone: 832-541-7719				Email: jim.raley@divn.com													State								
Email: Devon-team@etechenv.com				WBS/WO: 21231901													NM	CO	UT	AZ	TX				
Collected by: Gilbert Moreno				Incident ID: nAPP2326847671																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											Remarks									
11:10	10.20.23	S	1	BH07	1	0.5'								X											
11:20	10.20.23	S	1	BH07	2	4'								X											

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: GM

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.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>Culberson</i>	10.23.23	09:30	<i>Michelle Gayle</i>	10.23.23	0930	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Michelle Gayle</i>	10.23.23	1830	<i>Andrew M450</i>	10.23.23	1830	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Andrew M450</i>	10.23.23	2400	<i>Carth Man</i>	10.24.23	8:20	

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 30 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

Envirotech Analytical Laboratory

Printed: 10/24/2023 11:30:07AM

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:	10/24/23 08:20	Work Order ID:	E310225
Phone:	(539) 573-4018	Date Logged In:	10/23/23 15:36	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/30/23 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? Yes

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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX Federal 21 #031

Work Order: E310224

Job Number: 01058-0007

Received: 10/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/30/23

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: 10/30/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX Federal 21 #031
Workorder: E310224
Date Received: 10/24/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/24/2023 8:20:00AM, under the Project Name: RDX Federal 21 #031.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #031 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

Raina Schwanz
Laboratory Administrator
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rainaschwanz@envirotech-inc.com

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labadmin@envirotech-inc.com

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/23 16:11

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH08 0.5'	E310224-01A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.
BH08 1'	E310224-02A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/30/2023 4:11:46PM

BH08 0.5'

E310224-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Benzene	ND	0.0250	1	10/24/23	10/24/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/24/23	
Toluene	ND	0.0250	1	10/24/23	10/24/23	
o-Xylene	ND	0.0250	1	10/24/23	10/24/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/24/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		99.6 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		99.6 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343042
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/23	10/25/23	
Surrogate: n-Nonane		85.1 %	50-200	10/24/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2343073
Chloride	107	100	5	10/25/23	10/26/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/30/2023 4:11:46PM

BH08 1'

E310224-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Benzene	ND	0.0250	1	10/24/23	10/24/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/24/23	
Toluene	ND	0.0250	1	10/24/23	10/24/23	
o-Xylene	ND	0.0250	1	10/24/23	10/24/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/24/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		101 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		101 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343042
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/23	10/25/23	
Surrogate: n-Nonane		89.3 %	50-200	10/24/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2343073
Chloride	ND	40.0	2	10/25/23	10/26/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:11:46PM

Volatile Organic Compounds by EPA 8260B

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
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Blank (2343041-BLK1)

Prepared: 10/24/23 Analyzed: 10/24/23

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	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS (2343041-BS1)

Prepared: 10/24/23 Analyzed: 10/24/23

Benzene	2.15	0.0250	2.50		86.0	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.8	70-130			
Toluene	2.20	0.0250	2.50		88.0	70-130			
o-Xylene	2.32	0.0250	2.50		92.7	70-130			
p,m-Xylene	4.54	0.0500	5.00		90.8	70-130			
Total Xylenes	6.86	0.0250	7.50		91.5	70-130			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

Matrix Spike (2343041-MS1)

Source: E310221-22

Prepared: 10/24/23 Analyzed: 10/24/23

Benzene	2.30	0.0250	2.50	ND	92.1	48-131			
Ethylbenzene	2.34	0.0250	2.50	ND	93.4	45-135			
Toluene	2.26	0.0250	2.50	ND	90.4	48-130			
o-Xylene	2.34	0.0250	2.50	ND	93.6	43-135			
p,m-Xylene	4.58	0.0500	5.00	ND	91.6	43-135			
Total Xylenes	6.92	0.0250	7.50	ND	92.2	43-135			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			

Matrix Spike Dup (2343041-MSD1)

Source: E310221-22

Prepared: 10/24/23 Analyzed: 10/24/23

Benzene	2.39	0.0250	2.50	ND	95.7	48-131	3.79	23	
Ethylbenzene	2.44	0.0250	2.50	ND	97.7	45-135	4.50	27	
Toluene	2.39	0.0250	2.50	ND	95.5	48-130	5.44	24	
o-Xylene	2.41	0.0250	2.50	ND	96.4	43-135	2.99	27	
p,m-Xylene	4.74	0.0500	5.00	ND	94.8	43-135	3.49	27	
Total Xylenes	7.15	0.0250	7.50	ND	95.3	43-135	3.32	27	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:11:46PM

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
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Blank (2343041-BLK1)

Prepared: 10/24/23 Analyzed: 10/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS (2343041-BS2)

Prepared: 10/24/23 Analyzed: 10/24/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike (2343041-MS2)

Source: E310221-22

Prepared: 10/24/23 Analyzed: 10/24/23

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0	ND	93.0	70-130			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

Matrix Spike Dup (2343041-MSD2)

Source: E310221-22

Prepared: 10/24/23 Analyzed: 10/24/23

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130	9.61	20	
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:11:46PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

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 (2343042-BLK1)

Prepared: 10/24/23 Analyzed: 10/24/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.2		50.0		96.3	50-200			

LCS (2343042-BS1)

Prepared: 10/24/23 Analyzed: 10/24/23

Diesel Range Organics (C10-C28)	240	25.0	250		96.0	38-132			
Surrogate: n-Nonane	46.0		50.0		92.1	50-200			

Matrix Spike (2343042-MS1)

Source: E310238-02

Prepared: 10/24/23 Analyzed: 10/24/23

Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	49.1		50.0		98.3	50-200			

Matrix Spike Dup (2343042-MSD1)

Source: E310238-02

Prepared: 10/24/23 Analyzed: 10/24/23

Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132	6.50	20	
Surrogate: n-Nonane	52.1		50.0		104	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:11:46PM

Anions by EPA 300.0/9056A

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 (2343073-BLK1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	ND	20.0							
LCS (2343073-BS1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2343073-MS1)					Source: E310223-04		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	17400	2000	250	18000	NR	80-120			M4
Matrix Spike Dup (2343073-MSD1)					Source: E310223-04		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	18800	2000	250	18000	324	80-120	7.77	20	M4

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:	RDX Federal 21 #031	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/23 16:11

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- 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 12 of 13

Envirotech Analytical Laboratory

Printed: 10/24/2023 11:28:13AM

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:	10/24/23 08:20	Work Order ID:	E310224
Phone:	(539) 573-4018	Date Logged In:	10/23/23 15:34	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/30/23 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? Yes

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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX Federal 21 #031

Work Order: E310227

Job Number: 01058-0007

Received: 10/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/30/23

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: 10/30/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX Federal 21 #031
Workorder: E310227
Date Received: 10/24/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/24/2023 8:20:00AM, under the Project Name: RDX Federal 21 #031.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #031 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:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/23 16:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH09 0.5'	E310227-01A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.
BH09 1'	E310227-02A	Soil	10/20/23	10/24/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/30/2023 4:17:23PM

BH09 0.5'

E310227-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343044
Benzene	ND	0.0250	1	10/24/23	10/26/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/26/23	
Toluene	ND	0.0250	1	10/24/23	10/26/23	
o-Xylene	ND	0.0250	1	10/24/23	10/26/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/26/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/26/23	
Surrogate: 4-Bromochlorobenzene-PID	96.3 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343044
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.4 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343069
Diesel Range Organics (C10-C28)	ND	25.0	1	10/25/23	10/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/25/23	10/26/23	
Surrogate: n-Nonane	79.8 %	50-200		10/25/23	10/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2343073
Chloride	ND	20.0	1	10/25/23	10/27/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/30/2023 4:17:23PM

BH09 1'

E310227-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343044
Benzene	ND	0.0250	1	10/24/23	10/26/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/26/23	
Toluene	ND	0.0250	1	10/24/23	10/26/23	
o-Xylene	ND	0.0250	1	10/24/23	10/26/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/26/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343044
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2343069
Diesel Range Organics (C10-C28)	ND	25.0	1	10/25/23	10/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/25/23	10/26/23	
<i>Surrogate: n-Nonane</i>						
	72.5 %	50-200		10/25/23	10/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2343073
Chloride	ND	20.0	1	10/25/23	10/27/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:17:23PM

Volatile Organics by EPA 8021B

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
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Blank (2343044-BLK1)

Prepared: 10/24/23 Analyzed: 10/26/23

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	7.67		8.00		95.9	70-130			

LCS (2343044-BS1)

Prepared: 10/24/23 Analyzed: 10/26/23

Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	5.04	0.0250	5.00		101	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.1	70-130			

Matrix Spike (2343044-MS1)

Source: E310226-02

Prepared: 10/24/23 Analyzed: 10/26/23

Benzene	5.30	0.0250	5.00	ND	106	54-133			
Ethylbenzene	5.22	0.0250	5.00	ND	104	61-133			
Toluene	5.29	0.0250	5.00	ND	106	61-130			
o-Xylene	5.22	0.0250	5.00	ND	104	63-131			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
Total Xylenes	15.8	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			

Matrix Spike Dup (2343044-MSD1)

Source: E310226-02

Prepared: 10/24/23 Analyzed: 10/26/23

Benzene	5.44	0.0250	5.00	ND	109	54-133	2.60	20	
Ethylbenzene	5.37	0.0250	5.00	ND	107	61-133	2.77	20	
Toluene	5.43	0.0250	5.00	ND	108	61-130	2.59	20	
o-Xylene	5.37	0.0250	5.00	ND	107	63-131	2.73	20	
p,m-Xylene	10.9	0.0500	10.0	ND	109	63-131	2.61	20	
Total Xylenes	16.3	0.0250	15.0	ND	108	63-131	2.65	20	
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:17:23PM

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
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Blank (2343044-BLK1)

Prepared: 10/24/23 Analyzed: 10/26/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

LCS (2343044-BS2)

Prepared: 10/24/23 Analyzed: 10/26/23

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130			

Matrix Spike (2343044-MS2)

Source: E310226-02

Prepared: 10/24/23 Analyzed: 10/26/23

Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			

Matrix Spike Dup (2343044-MSD2)

Source: E310226-02

Prepared: 10/24/23 Analyzed: 10/26/23

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130	1.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:17:23PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2343069-BLK1) Prepared: 10/25/23 Analyzed: 10/26/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.7		50.0		83.3	50-200			

LCS (2343069-BS1) Prepared: 10/25/23 Analyzed: 10/26/23

Diesel Range Organics (C10-C28)	242	25.0	250		96.8	38-132			
Surrogate: n-Nonane	43.6		50.0		87.3	50-200			

Matrix Spike (2343069-MS1) Source: E310223-03 Prepared: 10/25/23 Analyzed: 10/26/23

Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.2	38-132			
Surrogate: n-Nonane	40.5		50.0		81.0	50-200			

Matrix Spike Dup (2343069-MSD1) Source: E310223-03 Prepared: 10/25/23 Analyzed: 10/26/23

Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.1	38-132	8.25	20	
Surrogate: n-Nonane	44.8		50.0		89.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/2023 4:17:23PM

Anions by EPA 300.0/9056A

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 (2343073-BLK1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	ND	20.0							
LCS (2343073-BS1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2343073-MS1)					Source: E310223-04		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	17400	2000	250	18000	NR	80-120			M4
Matrix Spike Dup (2343073-MSD1)					Source: E310223-04		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	18800	2000	250	18000	324	80-120	7.77	20	M4

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:	RDX Federal 21 #031	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/30/23 16:17

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- 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.





Envirotech Analytical Laboratory

Printed: 10/24/2023 11:34:42AM

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:	10/24/23 08:20	Work Order ID:	E310227
Phone:	(539) 573-4018	Date Logged In:	10/23/23 15:40	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/30/23 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? Yes

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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX Federal 21 #031

Work Order: E311142

Job Number: 01058-0007

Received: 11/17/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/28/23

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: 11/28/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX Federal 21 #031
Workorder: E311142
Date Received: 11/17/2023 7:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/17/2023 7:00:00AM, under the Project Name: RDX Federal 21 #031.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #031 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:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/28/23 10:46

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 (1.5')	E311142-01A	Soil	11/15/23	11/17/23	Glass Jar, 2 oz.
FS02 (1.5')	E311142-02A	Soil	11/15/23	11/17/23	Glass Jar, 2 oz.
FS03 (1.5')	E311142-03A	Soil	11/15/23	11/17/23	Glass Jar, 2 oz.
FS04 (1.5')	E311142-04A	Soil	11/15/23	11/17/23	Glass Jar, 2 oz.
FS05 (1.5')	E311142-05A	Soil	11/15/23	11/17/23	Glass Jar, 2 oz.
FS06 (1.5')	E311142-06A	Soil	11/15/23	11/17/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/28/2023 10:46:18AM

FS01 (1.5')

E311142-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2346120	
Benzene	ND	0.0250	1	11/17/23	11/27/23	
Ethylbenzene	ND	0.0250	1	11/17/23	11/27/23	
Toluene	ND	0.0250	1	11/17/23	11/27/23	
o-Xylene	ND	0.0250	1	11/17/23	11/27/23	
p,m-Xylene	ND	0.0500	1	11/17/23	11/27/23	
Total Xylenes	ND	0.0250	1	11/17/23	11/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		11/17/23	11/27/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2346120	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/23	11/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		11/17/23	11/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2347076	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2347089	
Chloride	ND	100	5	11/22/23	11/22/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/28/2023 10:46:18AM

FS02 (1.5')

E311142-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346120
Benzene	ND	0.0250	1	11/17/23	11/27/23	
Ethylbenzene	ND	0.0250	1	11/17/23	11/27/23	
Toluene	ND	0.0250	1	11/17/23	11/27/23	
o-Xylene	ND	0.0250	1	11/17/23	11/27/23	
p,m-Xylene	ND	0.0500	1	11/17/23	11/27/23	
Total Xylenes	ND	0.0250	1	11/17/23	11/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		11/17/23	11/27/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346120
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/23	11/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		11/17/23	11/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	98.7 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347089
Chloride	ND	200	10	11/22/23	11/22/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/28/2023 10:46:18AM

FS03 (1.5')

E311142-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346120
Benzene	ND	0.0250	1	11/17/23	11/27/23	
Ethylbenzene	ND	0.0250	1	11/17/23	11/27/23	
Toluene	ND	0.0250	1	11/17/23	11/27/23	
o-Xylene	ND	0.0250	1	11/17/23	11/27/23	
p,m-Xylene	ND	0.0500	1	11/17/23	11/27/23	
Total Xylenes	ND	0.0250	1	11/17/23	11/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		11/17/23	11/27/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346120
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/23	11/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		11/17/23	11/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347089
Chloride	ND	200	10	11/22/23	11/22/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/28/2023 10:46:18AM

FS04 (1.5')

E311142-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346120
Benzene	ND	0.0250	1	11/17/23	11/27/23	
Ethylbenzene	ND	0.0250	1	11/17/23	11/27/23	
Toluene	ND	0.0250	1	11/17/23	11/27/23	
o-Xylene	ND	0.0250	1	11/17/23	11/27/23	
p,m-Xylene	ND	0.0500	1	11/17/23	11/27/23	
Total Xylenes	ND	0.0250	1	11/17/23	11/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		11/17/23	11/27/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346120
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/23	11/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.6 %	70-130		11/17/23	11/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347089
Chloride	ND	200	10	11/22/23	11/22/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/28/2023 10:46:18AM

FS05 (1.5')

E311142-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346120
Benzene	ND	0.0250	1	11/17/23	11/27/23	
Ethylbenzene	ND	0.0250	1	11/17/23	11/27/23	
Toluene	ND	0.0250	1	11/17/23	11/27/23	
o-Xylene	ND	0.0250	1	11/17/23	11/27/23	
p,m-Xylene	ND	0.0500	1	11/17/23	11/27/23	
Total Xylenes	ND	0.0250	1	11/17/23	11/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		11/17/23	11/27/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346120
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/23	11/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.9 %	70-130		11/17/23	11/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347089
Chloride	ND	200	10	11/22/23	11/22/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX Federal 21 #031
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/28/2023 10:46:18AM

FS06 (1.5')

E311142-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346120
Benzene	ND	0.0250	1	11/17/23	11/27/23	
Ethylbenzene	ND	0.0250	1	11/17/23	11/27/23	
Toluene	ND	0.0250	1	11/17/23	11/27/23	
o-Xylene	ND	0.0250	1	11/17/23	11/27/23	
p,m-Xylene	ND	0.0500	1	11/17/23	11/27/23	
Total Xylenes	ND	0.0250	1	11/17/23	11/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		11/17/23	11/27/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346120
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/23	11/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.3 %	70-130		11/17/23	11/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
<i>Surrogate: n-Nonane</i>						
	98.4 %	50-200		11/21/23	11/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347089
Chloride	ND	200	10	11/22/23	11/22/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/28/2023 10:46:18AM

Volatile Organics by EPA 8021B

Analyst: RAS

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 (2346120-BLK1)

Prepared: 11/17/23 Analyzed: 11/27/23

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	7.34		8.00		91.8	70-130			

LCS (2346120-BS1)

Prepared: 11/17/23 Analyzed: 11/27/23

Benzene	4.99	0.0250	5.00		99.7	70-130			
Ethylbenzene	4.89	0.0250	5.00		97.8	70-130			
Toluene	4.96	0.0250	5.00		99.2	70-130			
o-Xylene	4.88	0.0250	5.00		97.6	70-130			
p,m-Xylene	9.96	0.0500	10.0		99.6	70-130			
Total Xylenes	14.8	0.0250	15.0		99.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.7	70-130			

Matrix Spike (2346120-MS1)

Source: E311144-05

Prepared: 11/17/23 Analyzed: 11/27/23

Benzene	4.48	0.0250	5.00	ND	89.7	54-133			
Ethylbenzene	4.46	0.0250	5.00	0.0395	88.4	61-133			
Toluene	4.48	0.0250	5.00	ND	89.6	61-130			
o-Xylene	4.52	0.0250	5.00	0.0309	89.8	63-131			
p,m-Xylene	9.17	0.0500	10.0	ND	91.7	63-131			
Total Xylenes	13.7	0.0250	15.0	0.0309	91.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			

Matrix Spike Dup (2346120-MSD1)

Source: E311144-05

Prepared: 11/17/23 Analyzed: 11/27/23

Benzene	5.27	0.0250	5.00	ND	105	54-133	16.2	20	
Ethylbenzene	5.18	0.0250	5.00	0.0395	103	61-133	15.0	20	
Toluene	5.24	0.0250	5.00	ND	105	61-130	15.7	20	
o-Xylene	5.20	0.0250	5.00	0.0309	103	63-131	13.9	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	14.0	20	
Total Xylenes	15.7	0.0250	15.0	0.0309	105	63-131	14.0	20	
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/28/2023 10:46:18AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

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 (2346120-BLK1) Prepared: 11/17/23 Analyzed: 11/27/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		8.00		100	70-130			

LCS (2346120-BS2) Prepared: 11/17/23 Analyzed: 11/27/23

Gasoline Range Organics (C6-C10)	52.4	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.10		8.00		101	70-130			

Matrix Spike (2346120-MS2) Source: E311144-05 Prepared: 11/17/23 Analyzed: 11/27/23

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			

Matrix Spike Dup (2346120-MSD2) Source: E311144-05 Prepared: 11/17/23 Analyzed: 11/27/23

Gasoline Range Organics (C6-C10)	50.7	20.0	50.0	ND	101	70-130	1.56	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/28/2023 10:46:18AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2347076-BLK1)					Prepared: 11/21/23 Analyzed: 11/22/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.4		50.0		105	50-200			

LCS (2347076-BS1)					Prepared: 11/21/23 Analyzed: 11/22/23				
Diesel Range Organics (C10-C28)	282	25.0	250		113	38-132			
Surrogate: n-Nonane	54.1		50.0		108	50-200			

Matrix Spike (2347076-MS1)					Source: E311142-05		Prepared: 11/21/23 Analyzed: 11/22/23		
Diesel Range Organics (C10-C28)	281	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

Matrix Spike Dup (2347076-MSD1)					Source: E311142-05		Prepared: 11/21/23 Analyzed: 11/22/23		
Diesel Range Organics (C10-C28)	286	25.0	250	ND	114	38-132	1.55	20	
Surrogate: n-Nonane	53.0		50.0		106	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX Federal 21 #031	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/28/2023 10:46:18AM

Anions by EPA 300.0/9056A

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 (2347089-BLK1)					Prepared: 11/22/23 Analyzed: 11/22/23				
Chloride	ND	20.0							
LCS (2347089-BS1)					Prepared: 11/22/23 Analyzed: 11/22/23				
Chloride	246	20.0	250		98.4	90-110			
Matrix Spike (2347089-MS1)					Source: E311142-03		Prepared: 11/22/23 Analyzed: 11/22/23		
Chloride	390	200	250	ND	156	80-120			M5
Matrix Spike Dup (2347089-MSD1)					Source: E311142-03		Prepared: 11/22/23 Analyzed: 11/22/23		
Chloride	374	200	250	ND	150	80-120	4.18	20	M5

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:	RDX Federal 21 #031	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/28/23 10:46

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.
- 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.



Released to: Imaging - 3/25/2024 2:36:49 PM

Received by OCD: 12/20/2023 9:45:39 AM

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only						TAT				EPA Program				
Project: RDX Federal 21 #031					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 311142		04108-0639					5 day TAT							
Address: 13000 W County Rd 100					City, State, Zip: Carlsbad, NM, 88220		Analysis and Method										RCRA				
City, State, Zip: Odessa, TX, 79765					Phone: 575-885-7502		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	TL DOG	State						
Phone: 832-541-7719					Email: jim.raley@dmv.com										NM	CO	UT	AZ	TX		
mail: Devon-team@etechnv.com					WO: 21231901																
Incident ID: nAPP2326847671																					
Collected by: Edyte Konan																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											Remarks					
9:00	11.15.23	S	1	FS01	1	1.5'							X								
9:10	11.15.23	S	1	FS02	2	1.5'							X								
9:20	11.15.23	S	1	FS03	3	1.5'							X								
9:30	11.15.23	S	1	FS04	4	1.5'							X								
9:40	11.15.23	S	1	FS05	5	1.5'							X								
9:50	11.15.23	S	1	FS06	6	1.5'							X								
11/16/2023																					

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: GM

Relinquished by: (Signature)

11/16/23

10:30

Received by: (Signature)

11-16-23

1030

Relinquished by: (Signature)

11-16-23

1700

Received by: (Signature)

11-16-23

1800

Relinquished by: (Signature)

11-16-23

2330

Received by: (Signature)

11/17/23

7:00

Lab Use Only

Received on ice: 0 / 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 30 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: 11/17/2023 9:55:30AM

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:	11/17/23 00:00	Work Order ID:	E311142
Phone:	(539) 573-4018	Date Logged In:	11/16/23 16:00	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/27/23 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? Yes

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.

APPENDIX G

NMOCD Notifications

Erick Herrera

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, October 11, 2023 5:18 PM
To: Erick Herrera; blm_nm_cfo_spill@blm.gov; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Cc: Raley, Jim; Devon-Team
Subject: RE: [EXTERNAL] WPX Liner Inspection Notification RDX Federal 21 #031 (nAPP2326847671)

Good afternoon Erick,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Erick Herrera <erick@etechenv.com>
Sent: Wednesday, October 11, 2023 3:41 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov
Cc: Raley, Jim <jim.ralej@dmn.com>; Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] WPX Liner Inspection Notification RDX Federal 21 #031 (nAPP2326847671)

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

Good afternoon,

This is a notification that Etech on behalf of WPX will be conducting a liner inspection at the RDX Federal 21 #031 for Incident Number (nAPP2326847671) on October 17, 2023 at approximately 0800 hrs.

If you have any questions or comments, please let me know.

Thank You,

Erick Herrera
Staff Geologist



Work: (432) 305-6416

Cell: (281) 777-4152

Anna Byers

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, October 17, 2023 11:28 AM
To: Erick Herrera; blm_nm_cfo_spill@blm.gov; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Cc: Raley, Jim; Devon-Team
Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (10/20)

Hi Erick,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 |Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Erick Herrera <erick@etechenv.com>
Sent: Tuesday, October 17, 2023 11:06 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov
Cc: Raley, Jim <jim.ralej@dmn.com>; Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] WPX Site Sampling Activity Update (10/20)

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

Good morning,

WPX anticipates conducting confirmation soil sampling activities at the following site on October 20th, 2023
Proposed Date: October 20, 2023
Proposed Timeframe: 0800 – 1700 hrs.
Site Name: RDX Federal 21 #031
Incident Number: nAPP2326847671
API: 30-015-41266

Thank you,

Erick Herrera
Staff Geologist



Work: (432) 305-6416

Cell: (281) 777-4152

Erick Herrera

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, November 9, 2023 10:17 AM
To: Erick Herrera; blm_nm_cfo_spill@blm.gov
Cc: Raley, Jim; Devon-Team; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (11/14-11/17)

Good morning Erick,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 |Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Erick Herrera <erick@etechenv.com>
Sent: Thursday, November 9, 2023 8:48 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov
Cc: Raley, Jim <jim.ralej@dmv.com>; Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] WPX Site Sampling Activity Update (11/14-11/17)

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

Good morning,

WPX anticipates conducting confirmation soil sampling activities at the following site between November 14th, through November 17th, 2023:

Proposed Date: November 14, 2023, November 15, 2023, November 16, 2023, November 17, 2023
Site Name: RDX Federal 21 #031
Proposed Timeframe: 0800 – 1700 hrs.
Incident Number: nAPP2326847671
API: 30-015-41266

Thanks,

Erick Herrera

Staff Geologist



Work: (432) 305-6416

Cell: (281) 777-4152

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 296562

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 296562
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2326847671
Incident Name	NAPP2326847671 RDX FEDERAL 21 #031 @ 30-015-41266
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Well	[30-015-41266] RDX FEDERAL 21 #031

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RDX FEDERAL 21 #031
Date Release Discovered	09/23/2023
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Production Tank Crude Oil Released: 10 BBL Recovered: 10 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Production Tank Produced Water Released: 195 BBL Recovered: 190 BBL Lost: 5 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.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

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

District IV

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

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

QUESTIONS, Page 2

Action 296562

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	296562
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	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@dmv.com Date: 12/20/2023
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QUESTIONS, Page 3

Action 296562

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	296562
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
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	Medium
A 100-year floodplain	Between 300 and 500 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report 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.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	24200
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	2420
GRO+DRO	(EPA SW-846 Method 8015M)	1340
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes 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.

On what estimated date will the remediation commence	01/01/2050
On what date will (or did) the final sampling or liner inspection occur	11/15/2023
On what date will (or was) the remediation complete(d)	11/15/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	1164
What is the estimated volume (in cubic yards) that will be remediated	120

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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QUESTIONS, Page 4

Action 296562

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	296562
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	Northern Delaware Basin Landfill
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 12/20/2023
--	---

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

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QUESTIONS, Page 5

Action 296562

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	296562
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Deferral Requests Only**

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	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	Lined secondary tank battery containment.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	4140
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	576
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.	
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	30-015-41266 RDX FEDERAL 21 #031
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmv.com Date: 12/20/2023

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QUESTIONS, Page 6

Action 296562

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 296562
	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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CONDITIONS

Action 296562

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 296562
	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 NAPP2326847671) until final reclamation of the well pad or major construction, whichever comes first. Etech and WPX do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The area requested for deferral is in the impacted soil underneath the lined tank battery containment on the caliche well pad, where remediation would require a major facility deconstruction (Figure 4). The area has been delineated and documented in the report. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	3/25/2024