District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Page leof 137

Incident ID	nAPP2307930900
District RP	
Facility ID	
Application ID	

#### **Responsible Party**

Responsible Party WPX Energy Permain, LLC	OGRID 246289
Contact Name Jim Raley	Contact Telephone 575-689-7597
Contact email Jim.Raley@dvn.com	Incident # (assigned by OCD) nAPP2307930900
Contact mailing address 5315 Buena Vista Drive, Carlsbad, NM 88220	

### **Location of Release Source**

Latitude \_\_\_\_\_32.0457649\_\_\_\_

\_\_\_\_\_Longitude \_\_\_\_\_-103.88517\_\_\_\_\_ (NAD 83 in decimal degrees to 5 decimal places)

Site Name: RDX 16 #008	Site Type Oil Well
Date Release Discovered: 3/16/2023	API# (if applicable) 30-015-39751

Unit Letter	Section	Township	Range	County
G	16	26S	30E	Eddy

Surface Owner: State Federal Tribal Private (Name: \_\_\_\_\_

#### Nature and Volume of Release

Volume Released (bbls) 4	Volume Recovered (bbls) 2
Volume Released (bbls) 30	Volume Recovered (bbls) 25
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (Mcf)	Volume Recovered (Mcf)
Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
	Volume Released (bbls) 4         Volume Released (bbls) 30         Is the concentration of dissolved chloride in the produced water >10,000 mg/l?         Volume Released (bbls)         Volume Released (bbls)

Cause of Release: Valve to head switch was closed, which did not allow the water transfer pump to activate. This caused a tank overflow to secondary containment.

 $bbl \ estimate = \frac{saturated \ soil \ volume \ (ft^{\underline{2}})}{4.21(\frac{ft^{\underline{3}}}{bbl \ equivalent})} * \ estimated \ soil \ porosity(\%) + recovered \ fluids \ (bbl)$ 

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F01111 C-141			Sidle	OI INCW	MEXICO

Incident ID	nAPP2307930900
District RP	
Facility ID	
Application ID	

Page 2cof 137

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
🛛 Yes 🗌 No	
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	nd Rosa Romero on 3/17/2023

#### **Initial Response**

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

 $\boxtimes$  The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

 $\square$  All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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.

Printed Name: \_\_Jim Raley\_\_\_\_\_ Title: \_\_Environmental Professional\_\_\_\_\_

Signature: \_\_\_\_\_\_ Date: \_\_\_\_\_\_ Date: \_\_\_\_\_\_\_

email: \_\_\_\_jim.raley@dvn.com\_\_\_\_\_

OCD Only

Received by: Jocelyn Harimon Date: 03/20/2023

Telephone: 575-689-7597

Page 2

**Received by OCD: 6/13/2023 1:41:54 PM** Form C-141 State of New Mexico

Page 3

Oil Conservation Division

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Incident ID	nAPP2307930900
District RP	
Facility ID	
Application ID	

Page 2 of 127

### Site Assessment/Characterization

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?	<u>&gt;100 (ft bgs)</u>
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🛛 Yes 🗌 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

#### Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- $\square$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

<b>Received by OCD: 6/13/20</b> Form C-141 Page 4	23 1:41:54 PM State of New Mexico Oil Conservation Divisior	1		Incident ID District RP Facility ID Application ID	Page 4 of 137 nAPP2307930900
regulations all operators are public health or the environm failed to adequately investig		otification OCD doo reat to gro of respons Title: Date:	s and perform co es not relieve the bundwater, surfa ibility for compl	prrective actions for rele operator of liability sho ce water, human health iance with any other feo tal Professional	ases which may endanger ould their operations have or the environment. In
OCD Only Received by: Joce	lyn Harimon		Date:06	5/13/2023	

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Page 5

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	nAPP2307930900
District RP	
Facility ID	
Application ID	

### **Remediation Plan**

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points  $\boxtimes$ Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. 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. Printed Name: Jim Raley Title: Environmental Professional fin Roby \_\_\_\_\_ Date: \_\_\_\_\_6/13/2023 Signature: email: \_\_\_\_\_Jim.Raley@dvn.com Telephone: <u>575-689-7597</u> OCD Only Received by: Jocelyn Harimon Date: 06/13/2023 Approved Approved with Attached Conditions of Approval Denied Deferral Approved Date: \_\_\_\_\_ Signature:



# **REMEDIATION WORK PLAN**

RDX 16 #008 Eddy County, New Mexico Incident Number nAPP2307930900

> 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 Remediation Work Plan (RWP) detailing site assessment and delineation soil sampling activities at the RDX 16 #008 ((Site) (**Figure 1** in **Appendix A**)) associated with an inadvertent release of crude oil and produced water. Based on field observations, field screening activities and review of the laboratory analytical results from delineation soil sampling activities at the Site, WPX proposes this RWP which summarizes corrective actions and details remediation objectives to rectify environmental impacts.

#### SITE LOCATION AND RELEASE BACKGROUND

On March 16, 2023, a storage tank overflow resulted in approximately 4 barrels (bbls) of crude oil and 30 bbls of produced water to be released within the tank battery containment earthen berm. Vacuum trucks were immediately dispatched and recovered approximately 2 bbls of crude oil and 25 bbls of produced water. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on March 20, 2023, and was subsequently assigned Incident Number nAPP2307930900. Shortly after the incident, the release area was mapped based on field observations, hereafter referred to as the Area of Concern (AOC) and presented on **Figure 2** in **Appendix A**.

The production well (API 30-015-39751) for this Site is located in Unit G, Section 16, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.0457649°, -103.88517°) as provided on the initial Form C-141 and is associated with oil and gas exploration and production operations on State Land.

The storage tanks for the well, where the release occurred, is located east of the production well in Unit H, Section 16, Township 26 South, Range 30 East, in Eddy County New Mexico (32.04507°, -103.88068°). The updated legals and coordinates are provided on the Final Form C-141.

#### 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.

Based on the initial desktop review, the Site appears to be within proximity of three potential receptors. The closest continuously flowing or significant water course to the Site appears to be an ephemeral stream identified on the NMOCD Oil and Gas Map online database and on the United States Geological Survey (USGS) 7.5-minute quadrangle map, located to the north within 300 feet of the Site. Forested/Shrub Riparian Wetlands were identified on the United States Fish and Wildlife Service (USFWS) online database, National Wetland Inventory (Wetland Mapper), located to the east and west



within 300 feet of the Site. The Site is located within a 100-year floodplain, as defined by the Federal Emergency Management Agency's (FEMA) National Flood Hazard Layer (NFHL) online database.

Based on the desktop review of the current BLM Carlsbad Field Office (CFO) karst cave potential map, this Site is located in a medium potential karst area. All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details from the site characterization are included in **Figure 1** in **Appendix A**.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs), based off a nearby soil boring performed by Talon LPE on behalf of WPX, located approximately ½ mile south of the Site on the RDX 16-25 well pad. Soil boring (MW-1) was advanced on December 16, 2020, via truck mounted drill rig equipped with hollow stem auger to a total depth of 110 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 well log for the referenced soil boring is provided in **Appendix B**.

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	600 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	100 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

#### **DELINEATION SOIL SAMPLING ACTIVITIES**

On May 22, 2023, Etech evaluated the Site based on information provided by WPX and conducted delineation activities to assess the AOC. Six delineation locations (BH01 through BH06) were advanced via hand auger and/or backhoe within and around the AOC, which were driven by field screening soil samples for volatile organic hydrocarbons using a photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A minimum of two soil samples were collected per sampling location, representing the highest observed field screening concentrations and the greatest depth representing the characterization of impacts. Field screening results and soil descriptions were denoted on soil sampling logs, which is included as **Attachment C**. The location of the delineation soil samples is shown in **Figure 2** in **Appendix A**. Photographic documentation during delineation activities is included in **Attachment 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.

#### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for soil samples assisting with lateral delineation (BH02 through BH05) were compliant with Site Closure Criteria.

Laboratory analytical results for the remaining samples collected within the AOC (BH01 and BH06) indicated that at least one of the COCs exceeded the Site Closure Criteria. Identified chloride impacts are characterized by concentrations ranging from 666 mg/kg to 5,290 mg/kg. Elevated TPH and BTEX



concentrations were only present at 0.5 feet bgs at BH06 and decreased to concentrations below Site Closure Criteria at 4 feet bgs.

Laboratory analytical results are summarized in Table 1 as **Attachment E**, and the complete laboratory reports with chain-of-custody documentation is included as **Attachment F**.

#### PROPOSED REMEDIATION WORK PLAN

Based on the delineation soil sampling results, the following conclusions regarding the release are presented:

- Laboratory analytical results for soil samples collected from BH01 within the AOC indicated elevated chloride concentrations (666 mg/kg and 5,290 mg/kg) exist up to 12 feet bgs. TPH concentrations only appear to exist in the proximity of sample location BH06, which dramatically decreased from 2,590 mg/kg at 0.5 feet bgs to 91.2 mg/kg at 4 feet bgs. Further investigation is necessary to determine the vertical extent of residual impacts associated with BH01;
- Laboratory analytical results for soil samples collected from BH02 through BH05 indicated COC concentrations were below the Site Closure Criteria, which will assist with defining the lateral extent of impacts associated with the inadvertent release.

Based on the conclusions drawn above, WPX proposes the following remedial corrective actions:

- WPX proposes to continue advancement of BH01 to investigate the vertical extent of the AOC via mechanical equipment (Figure 2 in Appendix A). Soil samples will be collected at a maximum frequency of 5-foot intervals and field screened for volatile organic compounds and chloride as previously described. Soil observations and field screening results for each delineation soil sample will be recorded on soil sampling logs. Soil sample locations will be mapped using a handheld GPS unit.
- WPX proposes to attempt advancement of lateral delineation boreholes BH02 through BH05 to match the total depth of BH01 to confirm the horizontal extent of impacts. Soil samples will be collected from each delineation location at a maximum frequency of 5-foot intervals and field screened for volatile organic compounds and chloride as previously described. Continued soil observations and field screening results for each delineation soil sample will be recorded on soil sampling logs. Soil sample locations will be mapped using a handheld GPS unit.
- A minimum of two soil samples will be collected from each delineation point location, representing the highest field screened concentration(s) and the greatest depth, and submitted to an accredited lab for analysis of BTEX, TPH and Chloride.
- Upon receipt and review of delineation soil laboratory results, WPX will determine the appropriate measure of corrective actions that will include:
  - Documenting and estimating an amount of impacted soil to be left in place at the Site with a subsequent Deferral Report detailing remediation efforts and soil sampling activities or
  - Preparing a RWP detailing the next course of remedial actions to address the presence of soil impacts at the Site, based off an estimated lateral and vertical extent of impacted soil from assessment and delineation activities.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or joseph@etechenv.com or Anna Byers at (575) 200-6754 or anna@etechenv.com.



Sincerely,

eTECH Environmental and Safety Solutions, Inc.

Inna Byers

Anna Byers Senior Geologist

cc: Jim Raley, Devon New Mexico Oil Conservation Division State Land Office

syn Add

Joseph S. Hernandez Senior Managing Geologist

#### Appendices:

Appendix A Figure 1: Site Map

Figure 2: Delineation Soil Sample Locations

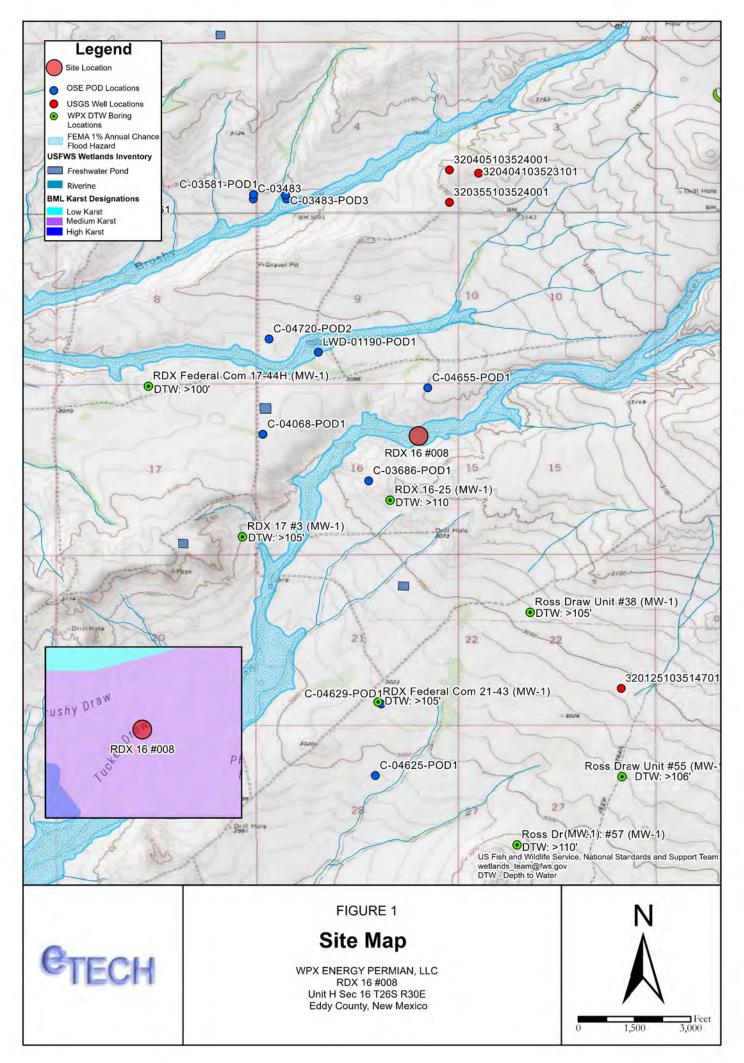
- Appendix B Referenced Well Records
- Appendix C Lithologic Sampling Logs
- Appendix D Photographic Log
- Appendix E Tables
- Appendix F Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix G NMOCD Correspondence

# APPENDIX A

# Figures

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### **APPENDIX B**

# **Referenced Well Records**

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Page 1	50	f 1	37	
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		HR	1				BORI	NG LOG/	MONITORING W	ELL COMPLETIO	N DIAG	RAM	
	$\leq$		Statistical and	IAN	CE		Boring/Wel		W-1	Location: RDX 16	2.5		
		00			NC		Date:	IVI	vv-1	Client:			
	714	30	LUI	110	1 3			12/10	0/2020	WPX Energy			
Drilling M			Sampling 1				Logged By:		DC	Drilled By:	DE		
A Gravel Pac	Air Rota	ry	Gravel Poo	NC k Depth Inte	one		Seal Type:	J. L11	nn, PG Seal Depth Interval:	Talon L	PE		
	0/20 sar	nd	Glavel Fac		ags			lone	None	32.0399	004		
Casing Typ		Diameter:		Depth Inter				al Depth (ft. BC		Longitude:			
PVC		2-inch		0-105 fe	eet bgs				10	-103.883			
Screen Typ	be:	Slot:	1.	Diameter:		Interval:	Well Total	Depth (ft. BGS			DTW Date		
PVC		0.010-ii	nch	2-inch	105-	110 ft		11	10	> 110	12/16	/2020	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID	Litholog	y/Remarks	Well Completion		
0 5 10 15 20	NM	L	D	N	N	NM	SW	NS		nk tan well graded with silt	-		
25 30 35	NM	L	D	N	N	NM	SP	NS	Pale pinky orange poorly graded fine sand		$\left[ \begin{array}{c} 1 \\ 1 \\ 1 \end{array} \right]$		
40 45	NM	L	D	Ν	Ν	NM	SW	NS	Orange to pale red well graded sand with gravel				
50 55	NM	L	D	Ν	Ν	NM	SP	NS	* • •	e poorly graded fine and	$\begin{bmatrix} 1 \\ 1 \end{bmatrix}$		
60 65 70 75 80 85 90 95 100 105 110	NM	L	D	N	N	NM	SP	NS	sand with minor i	e poorly graded fine medium and coarse D: 110' bgs			

# APPENDIX C

# Lithologic Sampling Logs

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



								Sample Name: BH01	Date: 05/22/2023		
		6	3	-	1			Site Name: RDX 16 #008			
		(	31	EC	-			Incident Number: nAPP2307930900			
				10 9 1				Job Number: 18138			
- I I			. / C		SAMPL		00	Logged By: Edyte Konan Method: Hand Auger			
								Hole Diameter: 4 inches			
	Site Coordinates: 32.644579, -103.448392 Comments: Field screening conducted with HACH Chloride T								Total Depth: 12 feet		
								water. No correction factors			
				-							
Moisture Content	Content Chloride (ppm) Vapor (ppm) Staining Staining Sample ID Sample ID Depth (feet bgs) USCS/Roc k Symbol						°⊃ ×	Lithologic Des	scriptions/Notes		
					_	0	CCHE	0-1' bgs: Pad surface CALIC	CHE, dry, no staining, no odor		
Dry	4,060	0.0	No	BH01	0.5	-		1-2' bgs: SAND, dry, brown,			
Dry	656	0.0	No		1	1	SW-SM		ery fine to coarse grained, no		
						-		2-12' bgs: SAND, dry, light brown, poorly graded with			
Dry	551	0.0	No		2	2	SP	gravel, very fine to fine grained, no staining, no			
						_					
						-					
Dry	656	0.0	No		3	- 3					
					-	-					
Dry	1,046	0.0	No	BH01	4	- 4					
					-	-					
Dry	1,696	0.0	No		5	5					
						-					
						-]					
Dry	1,208	0.0	No		6	- 6					
						-					
Dry	656	0.0	No	BH01	7	7					
,		0.0				-  ·					
						-					
Dry	904	0.0	No		8	- 8					
						-					
	070	0.0	N								
Dry	972	0.0	No		9	- 9					
						1		BH01 continued on following	g page (10' through 12')		

	1						Sample Name: BH01	Date: 05/22/2023		
	(	STR	ECH				Site Name: RDX 16 #008			
		1 1	-911			Incident Number: nAPP2307930900				
	0010		<u></u>				Job Number: 18138			
LITHOL					ING L	UG	Logged By: Edyte Konan	Method: Hand Auger		
Site Coordinate							Hole Diameter: 4 inches	Total Depth: 12 feet		
							t Strips and PID for chloride water. No correction factors			
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining	Sample ID Sample	<u> </u>	Depth (feet bgs)	USCS/Roc k Symbol		criptions/Notes		
Dry 972	0.0	No		10	10		BH01 continued			
Dry 904	0.0	No			- - - 11 -	SP		rown, poorly graded with small e grained, no staining, no odor		
Dry 972	0.0	No E	3H01	12	12 Tatal	Donthi 1	2 feet bgs			

1											
								Sample Name: BH02	Date: 05/22/2023		
		(	ЗT	FCI	4			Site Name: RDX 16 #008			
		-		LUI				Incident Number: nAPP2307930900			
		<u> </u>						Job Number: 18138			
					SAMPL	ING L	OG	Logged By: Edyte Konan	Method: Back Hoe		
	pordinate							Hole Diameter: n/a	Total Depth: 4 feet		
								t Strips and PID for chloride			
Chiorid	ie test pe	riormed	a witr	n 1:4 ali		or of soll to	aistillea	water. No correction factors	s included.		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Roc k Symbol		scriptions/Notes		
						. 0	CCHE	0-1' bgs: Pad surface CALI	CHE, dry, no staining, no odor		
Dry	0	0.0	No	BH02	0.5	-		1-4' bgs: SAND, dry, light b to fine grained, no sta	rown, poorly graded, very fine aining, no odor		
Dry	0	0.0	No		1	1	SP		5.		
					-	-					
					+ 	-					
Dry	0	0.0	No		2	2					
						_					
						-					
Dry	0	0.0	No		3	- 3					
					1	-					
						-					
Dry	<120	0.0	No	BH02	4	- 4					
	\$120	0.0		DI 102	1		Depth: 4	l I feet bgs			
								0			
					$\sim$						
						$\overline{}$					
								$\overline{}$			

1								-			
								Sample Name: BH03	Date: 05/22/2023		
		(	ЗT	FCI	4			Site Name: RDX 16 #008			
			1	FAI				Incident Number: nAPP2307930900			
								Job Number: 18138			
					SAMPL	ING L	OG	Logged By: Edyte Konan	Method: Back Hoe		
Site Coordinates: 32.644579, -103.448392								Hole Diameter: n/a	Total Depth: 4 feet		
								t Strips and PID for chloride water. No correction factors			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Roc k Symbol		scriptions/Notes		
						0	CCHE	0-1' bgs: Pad surface CALI	CHE, dry, no staining, no odor		
Dry	236	0.0	No	BH03	0.5	-		1-4' bgs: SAND, dry, light b to fine grained, no sta	rown, poorly graded, very fine aining, no odor		
Dry	236	0.0	No			1	SP		0,		
					_	_					
					-	-					
Dry	156	0.0	No		2	2					
						_					
					4	-					
Dry	156	0.0	No		3	- 3					
Diy	150	0.0				_ 0					
						-					
Deri	1100		N			- ,					
Dry	<120	0.0	N0	BH03	4	4 Total	Denth: 4	l I feet bgs			
						TOTA	Deptil	Fleet bys			
	$\sim$										
		$\searrow$									
							$\sim$	<			
								$\searrow$			

Sample Name: BH04       Date: 05/22/21         Site Name: RDX 16 #008       Incident Number: nAPP2307930900         Job Number: 18138       LITHOLOGIC / SOIL SAMPLING LOG       Logged By: Edyte Konan       Method: Hand         Site Coordinates: 32.644579, -103.448392       Hole Diameter: 4 inches       Total Depth: 4         Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, resp       Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.         and the test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.       Method: Hand         and the test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.       Lithologic Descriptions/No         and the test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.       Dift test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.         and test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.       Dift test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.         and test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.       Dift test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.         Dry       236       0.0       No       1       1       1       1	
Incident Number: nAPP2307930900 Job Number: 18138         LITHOLOGIC / SOIL SAMPLING LOG       Logged By: Edyte Konan       Method: Hand Site Coordinates: 32.644579, -103.448392         Hole Diameter: 4 inches       Total Depth: 4         Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, resp Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. <ul> <li>mit big of the system</li> <li>mit big</li></ul>	
Job Number: 18138         LITHOLOGIC / SOIL SAMPLING LOG       Logged By: Edyte Konan       Method: Hand         Site Coordinates: 32.644579, -103.448392       Hole Diameter: 4 inches       Total Depth: 4         Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, resp         Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.         any figure of the stript of test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.         any figure of test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.         any figure of test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.         any figure of test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.         any figure of test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.         Difter test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.         Difter test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.         Difter test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. <th>d Augus</th>	d Augus
LITHOLOGIC / SOIL SAMPLING LOG       Logged By: Edyte Konan       Method: Hand         Site Coordinates: 32.644579, -103.448392       Hole Diameter: 4 inches       Total Depth: 4         Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, resp         Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.         any test of the screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, resp         Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.         any test of the screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, resp         Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.         any test of the screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, resp         Chloride Test Strips and PID for chloride and vapor, resp         Construction factors included.         any test of the screening conducted with HACH Chloride Test Strips and PID for chloride Test Strips         Lithologic Descriptions/No         Difties the screening conducted with the scree	d A
Site Coordinates: 32.644579, -103.448392       Hole Diameter: 4 inches       Total Depth: 4         Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, resp         Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.         Lithologic Descriptions/No         O         SP       0-4 ft bgs: SAND, dry, light brown, poorly gr         Total Depth: 4         Dry       236       0       SP       0-4 ft bgs: SAND, dry, light brown, poorly gr         Dry       156       0       SP       0-4 ft bgs: SAND, dry, light brown, poorly gr         Dry       156       0       SP       0-4 ft bgs: SAND, dry, light brown, poorly gr         Dry       156       0       SP       0-4 ft bgs: SAND, dry, light brown, poorly gr         Dry       156       0.0       No         Dry       156       0.0       No         Dry       156       0.0	

1								-			
								Sample Name: BH05	Date: 05/22/2023		
		(	5T	FCI	4			Site Name: RDX 16 #008			
			1	FAI				Incident Number: nAPP2307930900			
								Job Number: 18138			
					SAMPL	ING L	OG	Logged By: Edyte Konan	Method: Hand Auger		
Site Coordinates: 32.644579, -103.448392								Hole Diameter: 4 inches	Total Depth: 4 feet		
								t Strips and PID for chloride water. No correction factors			
Chiona	le lest pe			1 1.4 UI							
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Roc k Symbol		scriptions/Notes		
						0	CCHE	0-1' bgs: Pad surface CALI	CHE, dry, no staining, no odor		
Dry	<120	0.0	No	BH05	0.5	-		1-4' bgs: SAND, dry, light b to fine grained, no sta	rown, poorly graded, very fine aining, no odor		
Dry	132	0.0	No		1	1	SP		<u>,</u>		
						_					
					-	-					
Dry	132	0.0	No		2	2					
						_					
					4	-					
Dry	<120	0.0	No		3	- 3					
Diy	120	0.0				- 0					
						-					
Dmr	~100	0.0	Na	BUOF		- ,					
Dry	<120	0.0		BH05	4	4 Total	Depth: 4	l I feet bgs			
						Tota	Doptin				
	$\sim$										
		$\searrow$									
							$\sim$	<			
								$\searrow$			
									$\searrow$		
L											

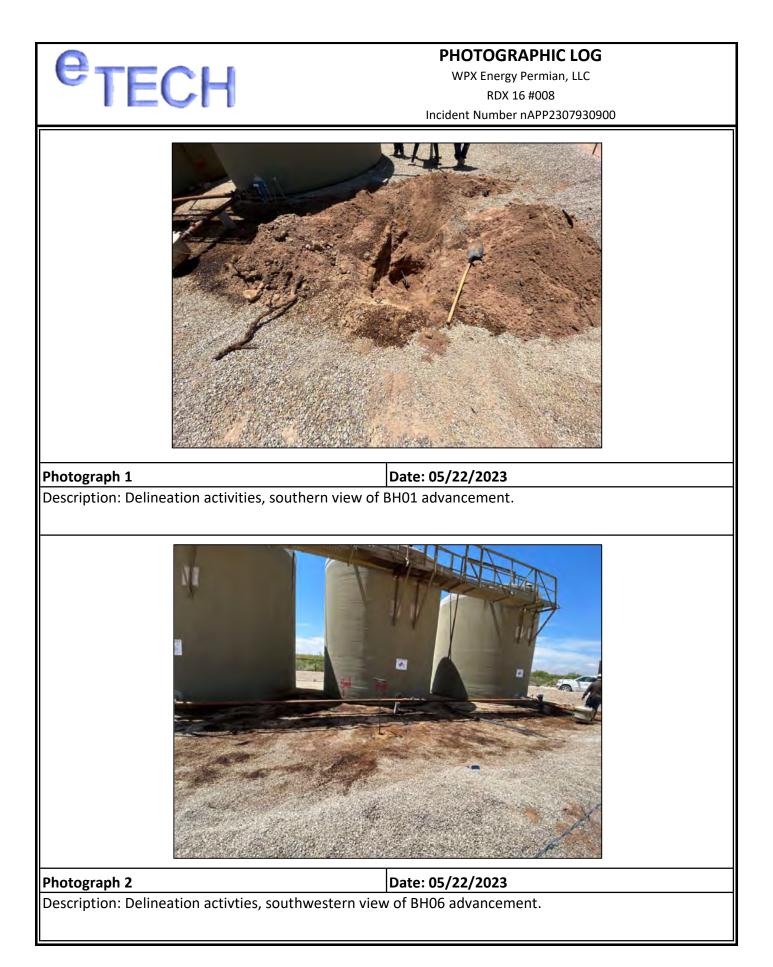
									Osmula Nama DU00	D-t 05/00/0000		
		1	3	-	1				Sample Name: BH06 Site Name: RDX 16 #008	Date: 05/22/2023		
		(	3	ECI	-				Incident Number: nAPP2307930900			
				10.01					Job Number: 18138			
⊩					SAMP							
							GL	UG	Logged By: Edyte Konan	Method: Hand Auger		
	Site Coordinates: 32.644579, -103.448392 Comments: Field screening conducted with HACH Chloride Tea								Hole Diameter: 4 inches	Total Depth: 7 feet		
									water. No correction factors			
	0 1001 p0			_								
Moisture Content	Content Content (ppm) Vapor (ppm) Staining Sample ID Sample ID Sample B Depth (feet bgs) USCS/Roc k Symbol								scriptions/Notes			
						Ļ	0	CCHE	0-1' bgs: Pad surface CALIC	CHE, dry, stained, no odor		
Day	5 502	170.1	Vaa	рцое		+			1.2'ft has SAND dry brow	n well graded with ailt and		
Dry	5,592	170.1	res	DUDO	0.5	ł			1-2' ft bgs: SAND, dry, brow some small gravel, ve	rn, well graded with slit and ery fine to coarse, no staining,		
Dry	268	14.5	No		1 -	$\uparrow$	1	SW-SM		signme to obtailed, no ottaining,		
					_	Ĺ						
						Ŧ				prown, poorly graded, very fine		
Dry	200	31.3	No		2 -	┢	2	SP	to fine, no staining, r	no odor		
	200	51.5	NO		2	╞	Ζ	55				
					-	+						
					_	Ĺ						
Dry	<120	8.4	No		3	$\downarrow$	3					
					-	+						
						╞						
Dry	156	8.0	No	BH06	4 -	┢	4					
						Ĺ						
						Ĺ						
	-100	10 5	NI -			$\downarrow$	F					
Dry	<120	10.5	No		5	╀	Э					
					-	t						
						Ĺ						
Dry	<120	30.1	No		6	Ţ	6					
					-	$\downarrow$						
						+						
Dry	<120	32.3	No		7 -	+	7					
		-					Tota	I Depth: 7	í feet bgs			
			_									
							-					
l												

## APPENDIX D

# Photographic Log

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213







## APPENDIX E

### Tables

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



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e <sub>TEC</sub>	Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC RDX 16 #008 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)	Total TPH (mg/kg)	Chloride (mg/kg)			
NMOCD Table I Closur Release (NMAC 19.15.		Is Impacted by a	10	50	NE	NE	NE	100	600			
				Delineation Soil	Samples - nAPP230793	30900						
BH01	05/22/2023	0.5	<0.0250	<0.0250	<20.0	32.7	<50.0	32.7	5,290			
BH01	05/22/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	1,510			
BH01	05/22/2023	7	<0.0250	<0.0250	<20.0	<50.0	<50.0	<50.0	666			
BH01	05/22/2023	12	<0.0250	<0.0250	<20.0	37.4	<50.0	37.4	861			
BH02	05/22/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	278			
BH02	05/22/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	34.1			
BH03	05/22/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	161			
BH03	05/22/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	21.8			
BH04	05/22/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	48.9			
BH04	05/22/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	49.6			
BH05	05/22/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0			
BH05	05/22/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0			
BH06	05/22/2023	0.5	<0.0250	0.2664	<20.0	611	255	866	2,590			
BH06	05/22/2023	4	<0.0250	<0.0250	<20.0	34.4	<50.0	34.4	91.2			

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

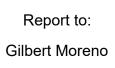
Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

# APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213







5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

### **Analytical Report**

### WPX Energy - Carlsbad

Project Name: RDX 16

RDX 16 #008

Work Order: E305150

Job Number: 01058-0007

Received: 5/25/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/30/23

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: 5/30/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #008 Workorder: E305150 Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,



Page 31 of 137

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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 reguarding 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

Field Offices:

**Southern New Mexico Area Lynn Jarboe** Technical Representative/Client Services

Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@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

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

### Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH06 0.5'	5
BH06 4'	6
QC Summary Data	7
QC - Volatile Organics by EPA 8021B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

#### Received by OCD: 6/13/2023 1:41:54 PM

Received by OCD: 6/13/2023 1:41:54 P	PM		Page 3	ge 33 of 137		
	Sample Sum	mary				
WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Demostede			
5315 Buena Vista Dr	y - Carlsbad Project Name: RDX 16 #008 Vista Dr Project Number: 01058-0007	01058-0007	Reported:			
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:23			

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
BH06 0.5'	E305150-01A Soil	05/22/23	05/25/23	Glass Jar, 2 oz.
BH06 4'	E305150-02A Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



		mpic D	aca			
WPX Energy - Carlsbad	Project Name:	RDZ	X 16 #008			
5315 Buena Vista Dr	Project Numbe	er: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Manage	oject Manager: Gilbert Moreno				5/30/2023 5:23:53PM
		BH06 0.5'				
	]	E305150-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: IY		Batch: 2321061
Benzene	ND	0.0250	1	05/25/23	05/27/23	
Ethylbenzene	0.0454	0.0250	1	05/25/23	05/27/23	
Toluene	ND	0.0250	1	05/25/23	05/27/23	
p-Xylene	0.0636	0.0250	1	05/25/23	05/27/23	
p,m-Xylene	0.157	0.0500	1	05/25/23	05/27/23	
Total Xylenes	0.221	0.0250	1	05/25/23	05/27/23	
Surrogate: 4-Bromochlorobenzene-PID		109 %	70-130	05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: IY		Batch: 2321061
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/25/23	05/27/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	70-130	05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: JL		Batch: 2321057
Diesel Range Organics (C10-C28)	611	25.0	1	05/25/23	05/26/23	
Oil Range Organics (C28-C36)	255	50.0	1	05/25/23	05/26/23	
Surrogate: n-Nonane		124 %	50-200	05/25/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: RAS		Batch: 2321082
Chloride	2590	20.0	1	05/26/23	05/27/23	

### Sample Data



	50	ample D	ala			
WPX Energy - Carlsbad	Project Name:	RDZ	X 16 #008			
5315 Buena Vista Dr	Project Numbe	er: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno		5/30/2023 5:23:53PM	
		BH06 4'				
		E305150-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2321061
Benzene	ND	0.0250	1	05/25/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/25/23	05/27/23	
Toluene	ND	0.0250	1	05/25/23	05/27/23	
o-Xylene	ND	0.0250	1	05/25/23	05/27/23	
o,m-Xylene	ND	0.0500	1	05/25/23	05/27/23	
Fotal Xylenes	ND	0.0250	1	05/25/23	05/27/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2321061
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/25/23	05/27/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.3 %	70-130	05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2321057
Diesel Range Organics (C10-C28)	34.4	25.0	1	05/25/23	05/26/23	
Dil Range Organics (C28-C36)	ND	50.0	1	05/25/23	05/26/23	
Surrogate: n-Nonane		110 %	50-200	05/25/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2321082
Chloride	91.2	20.0	1	05/26/23	05/27/23	



#### *Received by OCD: 6/13/2023 1:41:54 PM*

### **QC Summary Data**

		QC DI	u 111111 a	ii y Data	l				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	DX 16 #008 1058-0007 ilbert Moreno					<b>Reported:</b> 5/30/2023 5:23:53PM
		Volatile O	rganics <b>k</b>	oy EPA 802	1B				Analyst: IY
Analyte	D k	Reporting Limit	Spike Level	Source Result	D	Rec Limits	RPD	RPD Limit	
	Result mg/kg	mg/kg	mg/kg	mg/kg	Rec %	%	%	%	Notes
Blank (2321061-BLK1)							Prepared: 0	5/25/23 A	nalyzed: 05/26/23
· · · · ·	ND	0.0250							
Benzene Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
	ND								
p-Xylene	ND	0.0250 0.0500							
p,m-Xylene Total Xylenes	ND	0.0500							
Surrogate: 4-Bromochlorobenzene-PID	7.95	0.0250	8.00		99.4	70-130			
LCS (2321061-BS1)							Prepared: 0	5/25/23 A	nalyzed: 05/26/23
Benzene	4.31	0.0250	5.00		86.2	70-130			•
Ethylbenzene	4.50	0.0250	5.00		90.0	70-130			
Toluene	4.65	0.0250	5.00		93.0	70-130			
p-Xylene	4.75	0.0250	5.00		95.0	70-130			
p,m-Xylene	9.32	0.0500	10.0		93.2	70-130			
Total Xylenes	14.1	0.0250	15.0		93.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.93		8.00		99.2	70-130			
Matrix Spike (2321061-MS1)				Source: E305149-03		03	Prepared: 0	5/25/23 A	nalyzed: 05/26/23
Benzene	4.83	0.0250	5.00	ND	96.7	54-133			
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133			
Toluene	5.22	0.0250	5.00	ND	104	61-130			
p-Xylene	5.33	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.8	0.0250	15.0	ND	105	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.04		8.00		101	70-130			
Matrix Spike Dup (2321061-MSD1)				Source: l	E305149-	03	Prepared: 0	5/25/23 A	nalyzed: 05/26/23
Benzene	4.44	0.0250	5.00	ND	88.8	54-133	8.51	20	
		0.0250	5.00	ND	92.6	61-133	8.90	20	
Ethylbenzene	4.63	0.0250							
	4.63 4.78	0.0250	5.00	ND	95.6	61-130	8.78	20	
Ethylbenzene			5.00 5.00	ND ND	95.6 97.8	61-130 63-131	8.78 8.62	20 20	
Ethylbenzene Toluene p-Xylene	4.78	0.0250							
Ethylbenzene Toluene	4.78 4.89	0.0250 0.0250	5.00	ND	97.8	63-131	8.62	20	



## **QC Summary Data**

		QC D	uIIIII	ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX 16 #008 1058-0007 Gilbert Moreno					<b>Reported:</b> 5/30/2023 5:23:53PM
	No	nhalogenated O	Organics	by EPA 801	5D - GI	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2321061-BLK1)							Prepared: 0	5/25/23 A	Analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			
LCS (2321061-BS2)							Prepared: 0	5/25/23 A	Analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.1	70-130			
Matrix Spike (2321061-MS2)				Source: I	2305149-	03	Prepared: 0	5/25/23 A	Analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			
Matrix Spike Dup (2321061-MSD2)				Source: I	305149-	03	Prepared: 0	5/25/23 A	Analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	40.9	20.0	50.0	ND	81.8	70-130	12.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.02		8.00		75.2	70-130			



## **QC Summary Data**

		QC S		iry Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	DX 16 #008 1058-0007 ilbert Moreno					<b>Reported:</b> 5/30/2023 5:23:53PM
	Nonh	alogenated Org	anics 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
Blank (2321057-BLK1)							Prepared: 0	5/25/23 A	analyzed: 05/25/23
Diesel Range Organics (C10-C28)	ND	25.0					1		
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.8		50.0		114	50-200			
LCS (2321057-BS1)							Prepared: 0	5/25/23 A	analyzed: 05/25/23
Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			
Matrix Spike (2321057-MS1)				Source: <b>F</b>	305146-	01	Prepared: 0	5/25/23 A	analyzed: 05/26/23
Diesel Range Organics (C10-C28)	289	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	50.5		50.0		101	50-200			
Matrix Spike Dup (2321057-MSD1)				Source: E	305146-	01	Prepared: 0	5/25/23 A	analyzed: 05/26/23
Diesel Range Organics (C10-C28)	285	25.0	250	ND	114	38-132	1.30	20	
Surrogate: n-Nonane	52.0		50.0		104	50-200			



## **QC Summary Data**

		QU D	u	ary Duu	•					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	DX 16 #008 1058-0007 Gilbert Moreno					<b>Reported:</b> 5/30/2023 5:23:531	PM
		Anions	by EPA	300.0/9056A					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	
Blank (2321082-BLK1)							Prepared: 0	5/26/23	Analyzed: 05/26/23	
Chloride	ND	20.0								
LCS (2321082-BS1)							Prepared: 0	5/26/23	Analyzed: 05/26/23	
Chloride	254	20.0	250		102	90-110				
Matrix Spike (2321082-MS1)				Source:	E305149-(	)1	Prepared: 0	5/26/23	Analyzed: 05/26/23	
Chloride	272	20.0	250	21.8	99.9	80-120				
Matrix Spike Dup (2321082-MSD1)				Source:	E305149-(	)1	Prepared: 0	5/26/23	Analyzed: 05/26/23	
Chloride	290	20.0	250	21.8	107	80-120	6.42	20		

QC Summary Report Comment:

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



## **Definitions and Notes**

		2 • • • • • • • • • • • •		
Γ	WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
l	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:23

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Referoject Information

Page	1 of	Ponoi
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ient: WPX Energy P	ermian LLC		1	Bill	То				La		e On			TAT					EPA P	rogram
oject: RDX 16 #008	L			Attention: Jim Raley			Lab		1			Numb		1[	) 2D	3D		ndard	CWA	SDW
oject Manager: Gill	pert Morer	10		Address: 5315 Buena V			EE	305	515	0	010	58-	000				5 da	IN TAT		
ddress: 13000 W Co	unty Rd 10	00		City, State, Zip: Carlsbad	1, NM, 88220						Analy	sis an	d Meth	od		-				RCR
ty, State, Zip_Odess	a,TX, 7976	55		Phone: 575-885-7502		_		by				1			1					
none: 432-305-6415	;			Email: jim.raley@dvn.co	om		6 1	ORC	-										State	
nail: Devon-team@	etechenv.	com		WO: 21141253				RO/	51	0	0	0.0		NINA		X	Ν	MM CO	UT AZ	TX
ollected by: Edyte K	onan			Incident ID:			t.)	GRO/DRO/ORO by	802	826	601(	e 30				F			1.1	
Time Date Sampled	Matrix	No. of Containers	Sample ID		N	Lab Number	Depth(ft.)	TPH GR 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		00000		GDOC			Remarks	
13:00 5/22/2023	S	1		BH06			0.5'	- 80		-					(					
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elinquished by: (Signatu Edyte Kones	re) N	Date 05	(24) 23 Time	Received by: (Signatur	Euge 2	524	-23	Time	630	3	Rec	eived	on ice	: (	Lab	Jse Or N	nly			
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mple Matrix: S - Soil, Sd - S				 other arrangements are made.		Container												the analy	is of the al	nve
				other arrangements are made. y with this COC. The liability of th									the clief	it exp	ense.	merep	orcior	the analys	as of the at	JUIC
invies is applicable only	to mose sal	inples recei	veu by the laborator	y with this coc. The hability of th	aboratory is infin	icu to the	c anto	ant p	10 10	ont	ine rep									

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Client:	WPX Energy - Carlsbad	Date Received:	05/25/23 08	:20	Work Order ID:	E305150
Phone:	(539) 573-4018 E	ate Logged In:	05/24/23 16	:19	Logged In By:	Caitlin Mars
Email:		Due Date:	06/01/23 17	:00 (4 day TAT)		
Chain of	Custody (COC)					
1. Does tl	he sample ID match the COC?		Yes			
2. Does the	he number of samples per sampling site location match	the COC	Yes			
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	e COC complete, i.e., signatures, dates/times, requeste	d analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	ne field,	Yes		Commen	ts/Resolution
<u>Sample T</u>	<u>Furn Around Time (TAT)</u>					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e 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 th	he sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re- minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample te	mperature: 4°	С			
	<u>Container</u>	· · · · · -				
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample container	s collected?	Yes			
Field Lal						
	field sample labels filled out with the minimum inform	nation:				
S	ample ID?		Yes			
	Date/Time Collected?		Yes	L		
-	Collectors name?		Yes			
	Preservation	49	NT			
	the COC or field labels indicate the samples were pres	ervea?	No			
	ample(s) correctly preserved?	-1-9	NA			
	filteration required and/or requested for dissolved met	a15 (	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphase		No			
27. If yes	, does the COC specify which phase(s) is to be analyze	ed?	NA			
	ract Laboratory					
28. Are sa	amples required to get sent to a subcontract laboratory a subcontract laboratory specified by the client and if s		No			

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



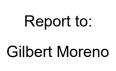
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Project Information

Released to Imaging: 11/14/2023 2:34:31 PM

Chain of Custody

Client: W	PX Energy Per	mian 110			- Internet	1	E	Bill To		1	-	La	ab Us	e Or	lv	( States)	1000	-		TA	AT		EPA P	rogram	
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	lanager: Gilbe	ert Moren	0				ress: 5315 Buena	a Vista Dr.		E	NO#	515	0	DIC	58	-00	ra				50	day TAT			
	13000 W Cou				Bern	City,	, State, Zip: Carls	bad, NM, 88220								nd Me						S and a		RCRA	
and a state of the	e, Zip_Odessa	Contract of the second s	and the second sec				ne: 575-885-750				À				. 1										
	32-305-6415						il: jim.raley@dvi	and the second s	and the second	1	ORO				- 1								State		
Contraction (Academic State State States)	evon-team@e	techenv.	com				: 21141253			1	30/0	E	0		0.0			WN		~		NM CO	UT AZ	TX	10
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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			BGDOC	1	GDOC			Remarks		11.04
13:00	5/22/2023	S	1	1			BH06		1	0.5			-					x				Added	1 inc.	dont	1 14
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5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

## WPX Energy - Carlsbad

Project Name:

RDX 16 #008

Work Order: E305151

Job Number: 01058-0007

> Received: 5/25/2023

> > Revision: 1

**Report Reviewed By:** 

Walter Hinchman Laboratory Director 5/30/23

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: 5/30/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #008 Workorder: E305151 Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,



Page 45 of 137

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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 reguarding 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

Field Offices:

**Southern New Mexico Area Lynn Jarboe** Technical Representative/Client Services

Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@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

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH04 0.5'	5
BH04 4'	6
QC Summary Data	7
QC - Volatile Organics by EPA 8021B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

		mary		
WPX Energy - Carlsbad		Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr		Project Number:	01058-0007	Reported:
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno	05/30/23 17:17
	Lak Samala ID	Madaila	Second ed	Descind Container

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 0.5'	E305151-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.
BH04 4'	E305151-02A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



	D.	ampic D	ata			
WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Numb	er: 0103	K 16 #008 58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			5/30/2023 5:17:21PM
		BH04 0.5'				
		E305151-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: IY		Batch: 2321061
Benzene	ND	0.0250	1	05/25/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/25/23	05/27/23	
Toluene	ND	0.0250	1	05/25/23	05/27/23	
o-Xylene	ND	0.0250	1	05/25/23	05/27/23	
o,m-Xylene	ND	0.0500	1	05/25/23	05/27/23	
Fotal Xylenes	ND	0.0250	1	05/25/23	05/27/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: IY		Batch: 2321061
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/25/23	05/27/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.5 %	70-130	05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: JL		Batch: 2321057
Diesel Range Organics (C10-C28)	ND	25.0	1	05/25/23	05/26/23	
Dil Range Organics (C28-C36)	ND	50.0	1	05/25/23	05/26/23	
Surrogate: n-Nonane		108 %	50-200	05/25/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2321082
Chloride	48.9	20.0	1	05/26/23	05/27/23	

## Sample Data



BH04 4' E305151-02 Reporting Analyte Result Limit Dilution Prepared Analyzed	<b>Reported:</b> 0/2023 5:17:21PM
Carlsbad NM, 88220       Project Manager:       Gilbert Moreno       5/30         BH04 4'         E305151-02         Analyte       Reporting         Analyte       Result       Limit       Dilution       Prepared       Analyzed         Volatile Organics by EPA 8021B       mg/kg       mg/kg       Analyst: Y       Bat         Benzene       ND       0.0250       1       05/25/23       05/27/23         Schylbenzene       ND       0.0250       1       05/25/23       05/27/23         Coluene       ND       0.0250       1       05/25/23       05/27/23 $p$ -Xylene       ND       0.0250       1       05/25/23       05/27/23 $p$ -Xylene       ND       0.0250       1       05/25/23       05/27/23	•
BH04 4'         E305151-02           Reporting           Analyte         Result         Limit         Dilution         Prepared         Analyzed           Volatile Organics by EPA 8021B         mg/kg         mg/kg         Analyst:         IY         Bat           Benzene         ND         0.0250         1         05/25/23         05/27/23           Schuplenzene         ND         0.0250         1         05/25/23         05/27/23           Yolatile Organics by EPA 8021B         ND         0.0250         1         05/25/23         05/27/23           Senzene         ND         0.0250         1         05/25/23         05/27/23           Schuplenzene         ND         0.0250         1         05/25/23         05/27/23           ND         0.0250         1         05/25/23         05/27/23         05/27/23           ND         0.0250         1         05/25/23         05/27/23         05/27/23           ND         0.0250         1         05/25/23         05/27/23         05/27/23           ND         0.0500         1         05/25/23         05/27/23         05/27/23	)/2023 5:17:21PM
E305151-02           Reporting           Analyte         Result         Limit         Dilution         Prepared         Analyzed           Volatile Organics by EPA 8021B         mg/kg         mg/kg         Analyst:         IV         Bat           Benzene         ND         0.0250         1         05/25/23         05/27/23           Schylbenzene         ND         0.0250         1         05/25/23         05/27/23           Foluene         ND         0.0250         1         05/25/23         05/27/23           Organics by EPA 8021B         MD         0.0250         1         05/25/23         05/27/23           Bat         MD         0.0250         1         05/25/23         05/27/23           Schylene         ND         0.0250         1         05/25/23         05/27/23           MD         0.0250         1         05/25/23         05/27/23           MD         0.0250         1         05/25/23         05/27/23           MD         0.0500         1         05/25/23         05/27/23	
Reporting           Analyte         Result         Limit         Dilution         Prepared         Analyzed           Volatile Organics by EPA 8021B         mg/kg         mg/kg         Analyst: IY         Bat           Benzene         ND         0.0250         1         05/25/23         05/27/23           Ethylbenzene         ND         0.0250         1         05/25/23         05/27/23           Foluene         ND         0.0250         1         05/25/23         05/27/23           o-Xylene         ND         0.0250         1         05/25/23         05/27/23           o-m-Xylene         ND         0.0250         1         05/25/23         05/27/23	
Analyte         Result         Limit         Dilution         Prepared         Analyzed           Volatile Organics by EPA 8021B         mg/kg         mg/kg         Analyst: IY         Bat           Benzene         ND         0.0250         1         05/25/23         05/27/23           Ethylbenzene         ND         0.0250         1         05/25/23         05/27/23           Foluene         ND         0.0250         1         05/25/23         05/27/23           o-Xylene         ND         0.0250         1         05/25/23         05/27/23           op,m-Xylene         ND         0.0500         1         05/25/23         05/27/23	
Wolatile Organics by EPA 8021B         mg/kg         mg/kg         Analyst: IY         Bat           Benzene         ND         0.0250         1         05/25/23         05/27/23           Ethylbenzene         ND         0.0250         1         05/25/23         05/27/23           Foluene         ND         0.0250         1         05/25/23         05/27/23           o-Xylene         ND         0.0250         1         05/25/23         05/27/23           o,m-Xylene         ND         0.0250         1         05/25/23         05/27/23	
ND         0.0250         1         05/25/23         05/27/23           Ethylbenzene         ND         0.0250         1         05/25/23         05/27/23           Toluene         ND         0.0250         1         05/25/23         05/27/23           o-Xylene         ND         0.0250         1         05/25/23         05/27/23           o-Xylene         ND         0.0250         1         05/25/23         05/27/23           p,m-Xylene         ND         0.0250         1         05/25/23         05/27/23	Notes
EthylbenzeneND0.0250105/25/2305/27/23FolueneND0.0250105/25/2305/27/23o-XyleneND0.0250105/25/2305/27/23op,m-XyleneND0.0500105/25/2305/27/23	tch: 2321061
TolueneND0.0250105/25/2305/27/23p-XyleneND0.0250105/25/2305/27/23p,m-XyleneND0.0500105/25/2305/27/23	
ND         0.0250         1         05/25/23         05/27/23           p.m-Xylene         ND         0.0500         1         05/25/23         05/27/23	
ND 0.0500 1 05/25/23 05/27/23	
ND         0.0250         1         05/25/23         05/27/23	
Surrogate:         4-Bromochlorobenzene-PID         101 %         70-130         05/25/23         05/27/23	
Nonhalogenated Organics by EPA 8015D - GRO mg/kg mg/kg Analyst: IY Bat	tch: 2321061
Gasoline Range Organics (C6-C10)         ND         20.0         1         05/25/23         05/27/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID 90.7% 70-130 05/25/23 05/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO mg/kg mg/kg Analyst: JL Bat	tch: 2321057
Diesel Range Organics (C10-C28) ND 25.0 1 05/25/23 05/26/23	
Dil Range Organics (C28-C36)         ND         50.0         1         05/25/23         05/26/23	
Surrogate: n-Nonane 106 % 50-200 05/25/23 05/26/23	
Anions by EPA 300.0/9056A mg/kg mg/kg Analyst: RAS Bat	tch: 2321082
Chloride 49.6 20.0 1 05/26/23 05/27/23	

## **QC Summary Data**

		QC DI	u 1111111 a	ii y Data	l				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	DX 16 #008 1058-0007 ilbert Moreno					<b>Reported:</b> 5/30/2023 5:17:21PM
		Volatile O	rganics <b>k</b>	oy EPA 802	1B				Analyst: IY
Analyte	D k	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	Result mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2321061-BLK1)							Prepared: 0	5/25/23 A	nalyzed: 05/26/23
Benzene	ND	0.0250					1 .		,
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.95	0.0250	8.00		99.4	70-130			
LCS (2321061-BS1)							Prepared: 0	5/25/23 A	nalyzed: 05/26/23
Benzene	4.31	0.0250	5.00		86.2	70-130	-		-
Ethylbenzene	4.50	0.0250	5.00		90.0	70-130			
Toluene	4.65	0.0250	5.00		93.0	70-130			
p-Xylene	4.75	0.0250	5.00		95.0	70-130			
p,m-Xylene	9.32	0.0500	10.0		93.2	70-130			
Total Xylenes	14.1	0.0250	15.0		93.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.93		8.00		99.2	70-130			
Matrix Spike (2321061-MS1)				Source: l	E305149-	03	Prepared: 0	5/25/23 A	nalyzed: 05/26/23
Benzene	4.83	0.0250	5.00	ND	96.7	54-133			
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133			
Toluene	5.22	0.0250	5.00	ND	104	61-130			
p-Xylene	5.33	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.8	0.0250	15.0	ND	105	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.04		8.00		101	70-130			
Matrix Spike Dup (2321061-MSD1)				Source: l	E305149-	03	Prepared: 0	5/25/23 A	nalyzed: 05/26/23
Benzene	4.44	0.0250	5.00	ND	88.8	54-133	8.51	20	
Ethylbenzene	4.63	0.0250	5.00	ND	92.6	61-133	8.90	20	
Luiyibenzene			5.00	ND	05.6	61-130	8.78	20	
Toluene	4.78	0.0250	5.00	ND	95.6	01-150	0.70	20	
-	4.78 4.89	0.0250 0.0250	5.00	ND	95.6 97.8	63-131	8.62	20	
Toluene									
Toluene o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131	8.62	20	



## **QC Summary Data**

		QC D	u 1111110	il y Dala					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	DX 16 #008 1058-0007 ilbert Moreno					<b>Reported:</b> 5/30/2023 5:17:21PM
	No	nhalogenated O	rganics	by EPA 801	5D - Gl	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2321061-BLK1)							Prepared: 0	5/25/23 A	Analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			
LCS (2321061-BS2)							Prepared: 0	5/25/23 A	Analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.1	70-130			
Matrix Spike (2321061-MS2)				Source: I	E305149-0	03	Prepared: 0	5/25/23 A	Analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			
Matrix Spike Dup (2321061-MSD2)				Source: I	E305149-0	03	Prepared: 0	5/25/23 A	Analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	40.9	20.0	50.0	ND	81.8	70-130	12.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.02		8.00		75.2	70-130			



## **QC Summary Data**

		QC S	u111111	iry Data	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	DX 16 #008 1058-0007 ilbert Moreno					<b>Reported:</b> 5/30/2023 5:17:21PM
	Nonh	alogenated Org	anics 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
				0.0					
Blank (2321057-BLK1)							Prepared: 0	5/25/23 A	Analyzed: 05/25/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.8		50.0		114	50-200			
LCS (2321057-BS1)							Prepared: 0	5/25/23 A	Analyzed: 05/25/23
Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			
Matrix Spike (2321057-MS1)				Source: <b>F</b>	305146-	01	Prepared: 0	5/25/23 A	Analyzed: 05/26/23
Diesel Range Organics (C10-C28)	289	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	50.5		50.0		101	50-200			
Matrix Spike Dup (2321057-MSD1)				Source: <b>F</b>	305146-	01	Prepared: 0	5/25/23 A	Analyzed: 05/26/23
Diesel Range Organics (C10-C28)	285	25.0	250	ND	114	38-132	1.30	20	
Surrogate: n-Nonane	52.0		50.0		104	50-200			



## **QC Summary Data**

		QU N		ing Duc					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager	0	DX 16 #008 1058-0007 iilbert Moreno					<b>Reported:</b> 5/30/2023 5:17:21P
		Anions	by EPA	300.0/9056 <i>A</i>	<b>\</b>				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
Blank (2321082-BLK1)							Prepared: 0	5/26/23	Analyzed: 05/26/23
Chloride	ND	20.0							
LCS (2321082-BS1)							Prepared: 0	5/26/23	Analyzed: 05/26/23
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2321082-MS1)				Source:	E305149-(	01	Prepared: 0	5/26/23	Analyzed: 05/26/23
Chloride	272	20.0	250	21.8	99.9	80-120			
Matrix Spike Dup (2321082-MSD1)				Source:	E305149-0	01	Prepared: 0	5/26/23	Analyzed: 05/26/23
Chloride	290	20.0	250	21.8	107	80-120	6.42	20	

QC Summary Report Comment:

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



## **Definitions and Notes**

		2 • • • • • • • • • • •		
Γ	WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:17

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Re		
elea	Project Inf	ormation
ISe		

Client: W	PX Energy Per	rmian LLC				Bill To				La	ab Us	se Or	nly				T	AT		EPA Pr	ogram
Project: RDX 16 #008				Attention: Jim Raley				WO#	ŧ		Job Number				2D	3D	Stand	lard	CWA	SDWA	
	Aanager: Gilbe				Address: 5315 Buena Vista D				305	515	1	DIt	58	-0007				5 day	TAT		1
Address:	13000 W Cou	nty Rd 10	00		City, State, Zip: Carlsbad, N								lysis and Met						3		RCRA
City, Stat	e, Zip_Odessa	,TX, 7976	55		Phone: 575-	885-7502			by							1	1			1	
Phone: 4	32-305-6415				Email: iim.ra	ley@dvn.com		1	ORO											State	
Email: De	evon-team@e	techenv.	com		WO: 211412	and the first of the second		0/0	0/0		_		0		WN			NN	A CO		TX
Collected	by: Edyte Ko	nan			Incident ID:		-	DPF	802	3260	5010	300		Z		TX					
Time	Date Sampled	Matrix	No. of Containers	Sample ID		Lab	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC			Remarks		
Sampled 11:40	5/22/2023		Containers		BH04	Number		TP 80	BT	0×	ž	5			-	GC					
11.40	5/22/2025	S	1	0. <u>1</u>	вно4		1	0.5'					6.1.1		X		U.I.				
12:00	5/22/2023	S	1		BH04	2	4'							х							
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Addition	al Instruction	s:																			
				of this sample. I am awa e grounds for legal actio		ith or intentionally mislabelling t	he sample loc	ation,				1.11.11.11.11.1		iiring thermal p at an avg temp							d or receive
	ed by: (Signature)		d and may b Date			Sampled by:	Insta		m:	_	-	pullice		or on one temp					.quent duy	3.	
Edyf	e Konan		05	124/23 10:37	> Mic	by: (Signature)	5-24	23	Time	30	)	Rece	eived	d on ice:		)/ N	se On	liγ			
Mill	ed by: (Signature)	ide	Date	24-23 Time 161	5 And	by:)(Signature)	Bate 24	23	Time	30	>	T1			T2			T3			
	ed by: (Signature)		Date	714.73 Time	Received	by (Signature)	Date 5h5		Time	:70	5		Ton	np °C	4						
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					ther arrangement	s are made. Hazardous sam												ort for the	analysi	c of the abr	21/0
						liability of the laboratory is								the client e	xpen	se. 1	ne rep	or for the	analysi	s of the abo	Jve
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### **Envirotech Analytical Laboratory**

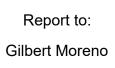
Sample Receipt Checklist (SRC)

Client:	WPX Energy - Carlsbad Da	te Received:	05/25/23	08:20	Work Order ID:	E305151
Phone:		te Logged In:	05/24/23		Logged In By:	Caitlin Mars
Email:		e Date:		17:00 (4 day TAT)	Lögged in By.	Calum Wars
Chain a	f Custody (COC)					
	the sample ID match the COC?		Yes			
	the number of samples per sampling site location match t	he COC				
	samples dropped off by client or carrier?		Yes Yes	Corrigen Courrige		
	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes	Carrier: Courier		
	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	·	Yes		<u>Commen</u>	ts/Resolution
<u>Sample</u>	Turn Around Time (TAT)					
6. Did th	ne COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	Cooler_					
7. Was a	a sample cooler received?		Yes			
8. If yes	, was cooler received in good condition?		Yes			
9. Was t	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample tem	perature: <u>4°</u>	<u>C</u>			
<u>Sample</u>	Container					
14. Are	aqueous VOC samples present?		No			
15. Are	VOC samples collected in VOA Vials?		NA			
16. Is th	e 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	e appropriate volume/weight or number of sample containers	collected?	Yes			
Field La	abel					
	e field sample labels filled out with the minimum information	ation:				
	Sample ID? Date/Time Collected?		Yes			
	Collectors name?		Yes Yes			
	Preservation		105			
-	s the COC or field labels indicate the samples were prese	rved?	No			
	sample(s) correctly preserved?		NA			
	b filteration required and/or requested for dissolved meta	ls?	No			
	nase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase?		No			
	es, does the COC specify which phase(s) is to be analyzed	!?	NA			
Subcont	tract Laboratory					
	samples required to get sent to a subcontract laboratory?		No			
	a subcontract laboratory specified by the client and if so	who?	NA	Subcontract Lab: NA		
	Instruction					

Date

envirotech Inc.

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





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

## WPX Energy - Carlsbad

Project Name:

RDX 16 #008

Work Order:	E305152
	E000102

Job Number: 01058-007

> Received: 5/25/2023

> > Revision: 1

**Report Reviewed By:** 

Walter Hinchman Laboratory Director 5/30/23

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: 5/30/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #008 Workorder: E305152 Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,



Page 58 of 137

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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 reguarding 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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@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

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH05 0.5'	5
BH05 4'	6
QC Summary Data	7
QC - Volatile Organics by EPA 8021B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

			Sample Sumn	nary		
WPX Energy - Carlsbad 5315 Buena Vista Dr			Project Name:	RDX 16 #008		Reported:
			Project Number:	01058-007		Reporteu:
	Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		05/30/23 17:18
L						
C	lient Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container

Lab Sample ID	Matrix	Sampled	Received	Container	
	Project Number: Project Manager:	01058-007 Gilbert Moreno			05/30/23 17:18

	-		-		
BH05 0.5'	E305152-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.
BH05 4'	E305152-02A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



	0	ampic D	ata			
WPX Energy - Carlsbad	Project Name		X 16 #008			
5315 Buena Vista Dr	Project Numb		58-007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			5/30/2023 5:18:51PM
		BH05 0.5'				
		E305152-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2321067
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2321067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2321081
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
Surrogate: n-Nonane		93.6 %	50-200	05/26/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2321082
Chloride	ND	20.0	1	05/26/23	05/27/23	

## Sample Data



	5	ample D	ala			
WPX Energy - Carlsbad	Project Name	: RDZ	X 16 #008			
5315 Buena Vista Dr	Project Numb	ber: 0105	58-007			Reported:
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno			5/30/2023 5:18:51PM
		BH05 4'				
		E305152-02				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2321067
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Foluene	ND	0.0250	1	05/26/23	05/26/23	
p-Xylene	ND	0.0250	1	05/26/23	05/26/23	
o,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID		96.9 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2321067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.6 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2321081
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Dil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
Surrogate: n-Nonane		95.5 %	50-200	05/26/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2321082
Chloride	ND	20.0	1	05/26/23	05/27/23	



## QC Summary Data

		QC BI	u 1111110	il y Data	L				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	01	DX 16 #008 1058-007					Reported:
Carlsbad NM, 88220		Project Manager:	G	Gilbert Moreno					5/30/2023 5:18:51PM
		Volatile Or	rganics l	by EPA 802	1B				Analyst: SL
Analyte	D li	Reporting Limit	Spike	Source Result	n	Rec Limits	RPD	RPD Limit	
	Result mg/kg	mg/kg	Level mg/kg	mg/kg	Rec %	%	%	2 %	Notes
	mg ng				70	70	70	70	Notes
Blank (2321067-BLK1)							Prepared: 0	5/25/23 A	nalyzed: 05/26/23
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	7.69		8.00		96.2	70-130			
LCS (2321067-BS1)							Prepared: 0	5/25/23 A	nalyzed: 05/26/23
Benzene	4.84	0.0250	5.00		96.7	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
p-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			
Matrix Spike (2321067-MS1)				Source: I	E305152-	02	Prepared: 0	5/25/23 A	nalyzed: 05/26/23
Benzene	4.52	0.0250	5.00	ND	90.5	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.7	61-130			
p-Xylene	4.90	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			
Matrix Spike Dup (2321067-MSD1)				Source: I	E305152-	02	Prepared: 0	5/25/23 A	nalyzed: 05/26/23
Benzene	4.10	0.0250	5.00	ND	81.9	54-133	9.94	20	
Ethylbenzene	4.34	0.0250	5.00	ND	86.7	61-133	9.63	20	
Toluene	4.39	0.0250	5.00	ND	87.9	61-130	9.60	20	
p-Xylene	4.43	0.0250	5.00	ND	88.6	63-131	10.1	20	
p,m-Xylene	8.83	0.0500	10.0	ND	88.3	63-131	9.41	20	
1 × 2									
Total Xylenes	13.3	0.0250	15.0	ND	88.4	63-131	9.66	20	



## **QC Summary Data**

		QC D	umma	ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	DX 16 #008 1058-007 silbert Moreno					<b>Reported:</b> 5/30/2023 5:18:51PM
	No	nhalogenated O	rganics	by EPA 801	5D - Gl	RO			Analyst: SL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2321067-BLK1)							Prepared: 0	5/25/23	Analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			
LCS (2321067-BS2)							Prepared: 0	5/25/23	Analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			
Matrix Spike (2321067-MS2)				Source: I	2305152-0	02	Prepared: 0	5/25/23	Analyzed: 05/27/23
Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			
Matrix Spike Dup (2321067-MSD2)				Source: I	2305152-0	02	Prepared: 0	5/25/23	Analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			

## **QC Summary Data**

		QC SI	u111111	ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	DX 16 #008 1058-007 ilbert Moreno					<b>Reported:</b> 5/30/2023 5:18:51PM
	Nonh	alogenated Orga	anics 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
Blank (2321081-BLK1)							Prepared: 0	5/26/23 A	analyzed: 05/26/23
Diesel Range Organics (C10-C28)	ND	25.0							-
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			
LCS (2321081-BS1)							Prepared: 0	5/26/23 A	analyzed: 05/26/23
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			
Matrix Spike (2321081-MS1)				Source: <b>E</b>	305155-	01	Prepared: 0	5/26/23 A	analyzed: 05/26/23
Diesel Range Organics (C10-C28)	302	25.0	250	37.4	106	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			
Matrix Spike Dup (2321081-MSD1)				Source: E	305155-	01	Prepared: 0	5/26/23 A	analyzed: 05/26/23
Diesel Range Organics (C10-C28)	307	25.0	250	37.4	108	38-132	1.63	20	
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



## **QC Summary Data**

		QU N	<i></i>	ary Dat					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager	0	DX 16 #008 1058-007 iilbert Moreno					<b>Reported:</b> 5/30/2023 5:18:51P
		Anions	by EPA	300.0/90564	4				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
Blank (2321082-BLK1)							Prepared: 0	5/26/23	Analyzed: 05/26/23
Chloride	ND	20.0							
LCS (2321082-BS1)							Prepared: 0	5/26/23	Analyzed: 05/26/23
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2321082-MS1)				Source:	E305149-0	)1	Prepared: 0	5/26/23	Analyzed: 05/26/23
Chloride	272	20.0	250	21.8	99.9	80-120			
Matrix Spike Dup (2321082-MSD1)				Source:	E305149-(	)1	Prepared: 0	5/26/23	Analyzed: 05/26/23
Chloride	290	20.0	250	21.8	107	80-120	6.42	20	

QC Summary Report Comment:

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



		2 • • • • • • • • • • • • •		
WPX Er	nergy - Carlsbad	Project Name:	RDX 16 #008	
5315 Bu	ena Vista Dr	Project Number:	01058-007	Reported:
Carlsbac	1 NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:18

ND	Analyte NOT DETECTED at or above the reporting limit
1.2	maryte no i bbilbe ibb at of acove are reporting initi

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Reproject Information

6 ò

Page	1 of	Received
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oject Ma dress: 1 y, State, one: 43 nail: Dev	DX 16 #008 anager: Gilbe 13000 W Cou e, Zip_Odessa											se On	-1				TAT			ogram									
dress: 1 y, State, one: 43 nail: Dev	13000 W Cou e, Zip_Odessa				Atte	ntion: Jim Raley		Lab	WO#			Job Number				2D	3D	READING STREET, LIKE LIKE	CWA	SDWA									
y, State, one: 43 nail: Dev	e, Zip_Odessa				-	ress: 5315 Buena Vista Dr.		E30515			2005		58.	58-007		0.11		5 day TAT											
one: 43 nail: Dev						State, Zip: Carlsbad, NM, 8822	0					Analy	sis ar	nd Method	ł	-				RCRA									
nail: Dev		,TX, 7976	5		Phor	ne: 575-885-7502			by							1													
	32-305-6415		_		Ema	il: jim.raley@dvn.com			ORC										State	1									
llected l	von-team@e		com		WO:	21141253			RO/	51	0	0	300.0		NM		×	NM CO	UT AZ	TX									
	by: Edyte Ko	nan			Incid	lent ID:		t.	d/o	/ 80	826	601	e 30				TX												
Time mpled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	Depth(ft.) TPH GRO/DRO/ORO by 8015	Depth( TPH GR 8015	Depth(ft.) TPH GRO/ 8015	Depth(ft FPH GRC 3015	Depth( TPH GF 8015	Depth(f TPH GR 8015	Depth(f TPH GR( 8015	Depth(f TPH GR 8015	Depth(f) TPH GR( 8015	TPH GRC 3015	TPH GR	BTEX by 8021	VOC by 8260	Metals 6010	Chloride :		BGDOC		GDOC		Remarks	
2:20	5/22/2023	S	1			BH05	1	0.5'							х														
2:40	5/22/2023	S	1			BH05	2	4'							x														
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lditiona	al Instruction	s:																											
				of this sample. I am e grounds for legal a		mpering with or intentionally mislabelling Sampled by:	the sample loca	ation,				1						ed on ice the day t on subsequent da	and the second states	d or receive									
deste	d by: (Signature hong n			124123 10:	30 4	Received by: (Signature)	Date 5-24%	12	Time 10	30		Rece	ived	on ice:		ab Us Y N	e Only												
Mul	d by: (Signature	Goll	Date Date	29.17 1	815	Received by: (Signature)	Date Date	23	Time	330	2	<u>T1</u>			<u>T2</u>			<u>T3</u>											
HAVCY	V Mise	0	5	24.23	1600	Caith man	6/5/0	3	8:0	20		AVG	_			_													
	ix: <b>S</b> - Soil, <b>Sd</b> - Sol				ass other arr	angements are made. Hazardous san	Container											feasthe	(A)										
noles is a	applicable only t	o those sam	noles receiv	red by the laborat	corv with this	COC. The liability of the laboratory is	limited to the	amo	unt na	id for	on the	e reno	oratt	ine client e	xpense	e. In	e report	for the analys	s of the abo	ve									
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						Page 12	2 of 14												-										

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Client:	WPX Energy - Carlsbad Da	ate Received:	05/25/23	08:20	Work Order ID:	E305152			
Phone:	(539) 573-4018 Date Logged In:			08:27	Logged In By:	Caitlin Mars			
Email:	. ,	ue Date:		17:00 (4 day TAT)					
<u>Chain o</u>	f 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	Carrier: Courier					
4. Was the	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes						
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution			
Sample	Turn Around Time (TAT)								
-	ne COC indicate standard TAT, or Expedited TAT?		Yes						
Sample	· •								
	a sample cooler received?		Yes						
	, was cooler received in good condition?		Yes						
9. Was th	he sample(s) received intact, i.e., not broken?		Yes						
	e custody/security seals present?		No						
	es, were custody/security seals intact?		NA						
	the sample received on ice? If yes, the recorded temp is 4°C, i.e.		Yes						
12 16	Note: Thermal preservation is not required, if samples are re minutes of sampling		C						
	visible ice, record the temperature. Actual sample ter	nperature: <u>4</u>	<u>c</u>						
	<u>Container</u>								
	aqueous VOC samples present? VOC samples collected in VOA Vials?		No NA						
	e head space less than 6-8 mm (pea sized or less)?		NA						
	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers?		NA Vas						
	e appropriate volume/weight or number of sample containers?	collected?	Yes Yes						
Field La		conceteu.	105						
	e field sample labels filled out with the minimum inform	ation							
	Sample ID?	ution	Yes						
]	Date/Time Collected?		Yes						
	Collectors name?		Yes						
	Preservation								
	s the COC or field labels indicate the samples were prese	erved?	No						
	sample(s) correctly preserved?	1.0	NA						
	b filteration required and/or requested for dissolved meta	us?	No						
	nase Sample Matrix								
	s the sample have more than one phase, i.e., multiphase?		No						
27. If ye	es, does the COC specify which phase(s) is to be analyzed	d?	NA						
	tract Laboratory								
	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					

C

Date

envirotech Inc.

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

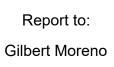
#### Chain of Custody

#### Page 1 of 1

Project In	formation					Chain	of Custody													Page 1 o
Client: W	lient: WPX Energy Permian LLC.				Bill To				hlle	Use Only					TA	1 504	Deserver			
	roject: RDX 16 #008			Attention: Jim Raley			Lab WO# E 305152				Jse Only Job Number		r	1D 2D		3D	Standa		Program SDW	
Project: NDX 10 W000 Project Manager: Gilbert Moreno Address: 13000 W County Rd 100 City, State, Zip_Odessa,TX, 79765											7	0058-007			10 20 30		50	5 day T	And a second	5000
												Analysis and Methor						- day mit	1	RCR
								E E			11-1			T	i T					- nero
	one: 432-305-6415							BRO									The second second	State	- Alexandre	
Email: Devon-team@etechenv.com Collected by: Edyte Konan			WO: 21141253 Incident ID: <b>(APP230730900</b>				TPH GRO/DRO/ORO by 8015	8021			0		5			NM	COUTA			
									260	010	300		WN		¥					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Interaction	111 000 100	Lab Number	Depth(ft.)	PH GRC 015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remar	ks
12:20	5/22/2023	S	1		BH05	ALC: NOT ALL AND A	0.5			>	2	0		X		0	Dal	ded (	lient	
12:40	5/22/2023	S	1	•	BH05		2	4'							x		2			Dor
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Addition	al Instruction			1	ana ang ang ang ang ang ang ang ang ang														•	
				fable seconds them	and the second second	A						-								
date or time	e of collection is con	nsidered frau		e grounds for legal	action.	th or intentionally mislabelli Sampled by:						1.000	a second second second					<sup>o</sup> C on subsequ	e day they are san ent days.	pled or receiv
Relinguished by: (Signature) Date Time Edyte Konon 05/24/23 10			30 Received t	by: (Signature)	- 5-24d	5-2423 1030				Lab Use Only Received on ice: Y N										
Mu	ed by: (Signature	Goll	- Date	24.17 Time	815 Hide	by: (Signature)	5.24	23	Time	230	2	<u>T1</u>			T2			<u>T3</u>		
Relinquish	ed by: (Signature	10	Date	24.23 2	400 Received 1	ht: (Signature)	Bate	3	Time 8:	20		AVG	Temp	°c 4	F					
Sample Mat	trix: S - Soil, Sd - So	lid, Sg - Sludg	ge, A - Aqueo	us, O - Other	- mal	a com	Container	Туре	1	Construction of the second					er glass	5. V -	VOA	a Theory Print Party of the		and the second second
Note: Sam samples is	ples are discarde applicable only t	d 30 days a o those san	fter results	are reported unlived by the laborat	ess other arrangements tory with this COC. The	s are made. Hazardous liability of the laboratory	samples will be re	eturn	ed to d	client o	or dis	posed	of at the					ort for the a	alysis of the a	above

of at the client expense. The report for the analysis of the above envirotech 70 0137

Page 14 of 14





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

## WPX Energy - Carlsbad

Project Name:

RDX 16 #008

Work Order: E305153

Job Number: 01058-0007

> Received: 5/25/2023

> > Revision: 1

**Report Reviewed By:** 

Walter Hinchman Laboratory Director 5/30/23

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: 5/30/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #008 Workorder: E305153 Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,



Page 72 of 137

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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 reguarding 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

Field Offices:

Southern New Mexico Area Lynn Jarboe Technical Representative/Client Services

Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@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

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH03 0.5'	5
BH03 4'	6
QC Summary Data	7
QC - Volatile Organics by EPA 8021B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

		Sample Sum	mary		
WPX Energy - Carlsbad		Project Name:	RDX 16 #008		Reported:
5315 Buena Vista Dr		Project Number:	01058-0007		Reporteu.
Carlsbad NM, 88220	sbad NM, 88220 Project Manage		Gilbert Moreno		05/30/23 17:20
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 0.5'	E305153-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.
BH03 4'	E305153-02A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



.

Page 74 of 137

	D.	ampic D	ata			
WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Numb		X 16 #008 58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			5/30/2023 5:20:20PM
		BH03 0.5'				
		E305153-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: SL		Batch: 2321067
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
p-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID		94.7 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: SL		Batch: 2321067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.4 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2321081
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
Surrogate: n-Nonane		91.7 %	50-200	05/26/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: RAS		Batch: 2321083
Chloride	161	40.0	2	05/26/23	05/26/23	

## Sample Data



	5	ample D	ala			
WPX Energy - Carlsbad	Project Name	e: RD2	X 16 #008			
5315 Buena Vista Dr	Project Numb	ber: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno			5/30/2023 5:20:20PM
		BH03 4'				
		E305153-02				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2321067
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
o,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID		95.7 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2321067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2321081
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Dil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
Surrogate: n-Nonane		91.9 %	50-200	05/26/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2321083
Chloride	21.8	20.0	1	05/26/23	05/26/23	



## QC Summary Data

		<b>2</b> 00		ily Date	~				
WPX Energy - Carlsbad		Project Name:		DX 16 #008					Reported:
5315 Buena Vista Dr		Project Number:	0	1058-0007					
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					5/30/2023 5:20:20PM
		Volatile O	rganics	1B				Analyst: SL	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2321067-BLK1)							Prepared: 0	5/25/23 A	nalyzed: 05/26/23
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	7.69		8.00		96.2	70-130			
LCS (2321067-BS1)							Prepared: 0	5/25/23 A	analyzed: 05/26/23
Benzene	4.84	0.0250	5.00		96.7	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
p-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			
Matrix Spike (2321067-MS1)				Source:	E305152-	02	Prepared: 0	5/25/23 A	analyzed: 05/26/23
Benzene	4.52	0.0250	5.00	ND	90.5	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.7	61-130			
p-Xylene	4.90	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			
Matrix Spike Dup (2321067-MSD1)				Source:	E305152-	02	Prepared: 0	5/25/23 A	analyzed: 05/26/23
Benzene	4.10	0.0250	5.00	ND	81.9	54-133	9.94	20	
Ethylbenzene	4.34	0.0250	5.00	ND	86.7	61-133	9.63	20	
Toluene	4.39	0.0250	5.00	ND	87.9	61-130	9.60	20	
o-Xylene	4.43	0.0250	5.00	ND	88.6	63-131	10.1	20	
p,m-Xylene	8.83	0.0500	10.0	ND	88.3	63-131	9.41	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.4	63-131	9.66	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



## **QC Summary Data**

		QC 5	uIIIII	ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	DX 16 #008 1058-0007 silbert Moreno					<b>Reported:</b> 5/30/2023 5:20:20PM
	No	nhalogenated O	rganics	by EPA 801	5D - Gl	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2321067-BLK1)							Prepared: 0	5/25/23 A	Analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			
LCS (2321067-BS2)							Prepared: 0	5/25/23 A	Analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			
Matrix Spike (2321067-MS2)				Source: <b>F</b>	2305152-	02	Prepared: 0	5/25/23 A	Analyzed: 05/27/23
Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			
Matrix Spike Dup (2321067-MSD2)				Source: F	305152-	02	Prepared: 0	5/25/23 A	Analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



## **QC Summary Data**

		VC B	4111116	ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	DX 16 #008 1058-0007 Gilbert Moreno					<b>Reported:</b> 5/30/2023 5:20:20PM
	Nonh	alogenated Orga	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2321081-BLK1)							Prepared: 0	5/26/23 A	analyzed: 05/26/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			
LCS (2321081-BS1)							Prepared: 0	5/26/23 A	analyzed: 05/26/23
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			
Matrix Spike (2321081-MS1)				Source: E	305155-	01	Prepared: 0	5/26/23 A	analyzed: 05/26/23
Diesel Range Organics (C10-C28)	302	25.0	250	37.4	106	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			
Matrix Spike Dup (2321081-MSD1)				Source: E	305155-	01	Prepared: 0	5/26/23 A	analyzed: 05/26/23
Diesel Range Organics (C10-C28)	307	25.0	250	37.4	108	38-132	1.63	20	
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



### **QC Summary Data**

	•		v					
	Project Name: Project Number: Project Manager:	0	1058-0007					<b>Reported:</b> 5/30/2023 5:20:20PM
	Anions	by EPA 3	300.0/9056A	1				Analyst: RAS
Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
						Prepared: 0:	5/26/23	Analyzed: 05/26/23
ND	20.0					Prepared: 0	5/26/23	Analyzed: 05/26/23
246	20.0	250	Source:	98.5 <b>E305153-0</b>	90-110 <b>)1</b>	Prepared: 0:	5/26/23	Analyzed: 05/26/23
419	40.0	250	161	103 F305153 0	80-120	Prepared: 0	5/26/23	Analyzed: 05/26/23
424	40.0	250				•		Anaryzeu. 03/20/23
	mg/kg ND 246	Project Name:       Project Number:       Project Manager:       Anions       Result       mg/kg       ND       246       20.0       419       40.0	Project Name:     R       Project Number:     0.       Project Manager:     G       Anions by EPA 3       Result     Reporting Limit     Spike Level mg/kg       ND     20.0       246     20.0     250       419     40.0     250	Project Name:     RDX 16 #008       Project Number:     01058-0007       Project Manager:     Gilbert Moreno       Anions by EPA 300.0/9056A       Result     Spike       Result     Spike       mg/kg     mg/kg       ND     20.0       246     20.0       246     20.0       Source:       419     40.0       Source:       Source:       Source:	Project Number:01058-0007Project Manager:Gilbert MorenoAnions by EPA 300.0/9056AResultReporting LimitSpike LevelSource Resultmg/kgmg/kgmg/kgmg/kg%ND20.025098.524620.025098.5Source:E305153-041940.0250161103Source: E305153-0	Project Name:         RDX 16 #008           Project Number:         01058-0007           Project Manager:         Gilbert Moreno             Anions by EPA 300.0/9056A             Result         Reporting         Spike         Source         Rec         Limits           mg/kg         mg/kg         mg/kg         %         %         %         %             ND         20.0         250         98.5         90-110           Source:         E305153-01         Source:         E305153-01           419         40.0         250         161         103         80-120	Project Name:         RDX 16 #008           Project Number:         01058-0007           Project Manager:         Gilbert Moreno           Anions by EPA 300.0/9056A           Result         Reporting         Spike         Source         Rec         Limits         RPD           mg/kg         mg/kg         mg/kg         mg/kg         %         %         %           ND         20.0         250         98.5         90-110         Prepared: 0.0           246         20.0         250         161         103         80-120         Prepared: 0.0           419         40.0         250         161         103         80-120         Prepared: 0.0	Reporting mg/kg         Spike mg/kg         Source mg/kg         Rec mg/kg         Reporting mg/kg         RPD timit mg/kg

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**

		2 • • • • • • • • • • • •		
Γ	WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:20

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



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Client: W	PX Energy Pe	rmian LLC				Bill To				La	ab Us	se Or	nly		1		TA	т	EPA P	ogram
	RDX 16 #008					tention: Jim Raley		Lab	WO#		-	Job			1D	2D	3D	Standard	CWA	SDWA
	Aanager: Gilbe					dress: 5315 Buena Vista Dr.		EE	305	50	3	60	58	10001	1		1	5 day TAT		
	13000 W Cou	-				y, State, Zip: Carlsbad, NM, 882	20					Analy	ysis a	nd Method	d					RCRA
	e, Zip_Odessa	a,TX, 7976	55			one: 575-885-7502			Vd C									1		
	32-305-6415					nail: jim.raley@dvn.com	_		/OR				1.2						State	
	evon-team@e		com		-	D: 21141253		-	ORO	021	60	10	00.00		MN		X	NM CO	UT AZ	TX
	d by: Edyte Ko	nan		1	Inc	ident ID: nAPP2307930900	1	(ft.)	RO/I	oy 80	y 82	s 60.	de 3		U			-		
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		BGDOC		GDOC		Remarks	
11:00	5/22/2023	S	1			BH03	1	0.5'							x					
11:20	5/22/2023	S	1			BH03	2	4'							x					
		-											-							
								-					-		-	-				
									-	-	-		-		-	-				
									-	-					_					
		1																		
			(1																	
Addition	al Instruction	IS:							-											_
				of this sample. I am e grounds for legal		tampering with or intentionally mislabellir Sampled by:	ng the sample loo	cation,										eived on ice the day °C on subsequent da		ed or received
Relinquish	ed by: (Signature 2 Konan	Service provide and the service of t	Date	Time		Received by: (Signature)	Date 5-24	12	Time	280		-					se Onl	y .		-
Relinquish	ed by: (Signature	) A.	Date	Time	11.5.	Received by: (Signature)	Date	11.02	Time	22			eiveo	d on ice:	O'N					
AMO	ula Con	upac			815		12.1	4.12	Time	12	/	<u>T1</u>			<u>T2</u>			<u></u> <u>T3</u>		
AN	ed by: (Signature	50	Vate	5.U.2.2	400	Received by: (Signature)	Date 5/26	123	Time 8:	20	)	AVO	G Ten	np°C_4	1					
Sample Mat	rix: <b>S</b> - Soil, <b>Sd</b> - So	lid, <b>S</b> g - Sludg	e, A - Aqueo	us, <b>O</b> - Other		00		r Type	e: g - (	glass,	<b>p</b> - p	oly/p	lastic	, ag - ambe	er gla	ss, v -	VOA			
	e la construction de la construc	a company a second				rrangements are made. Hazardous s								the client e	expens	se. Ti	ne repo	rt for the analys	is of the ab	ove
samples is	applicable only t	those san	nples receiv	ed by the laborat	ory with th	his COC. The liability of the laboratory	is limited to th	e amo	unt pa	aid for	on th	ne rep	ort.							0
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						Page 1	2 of 13				-								~	
						- <b></b>														

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

	s: Please take note of any NO checkmarks. e no response concerning these items within 24 hours of the c	late of this not	ice, all the	samples will be analyzed as re	quested.	
Client:	WPX Energy - Carlsbad Da	te Received:	05/25/23	08:20	Work Order ID:	E305153
Phone:	(539) 573-4018 Da	te Logged In:	05/25/23	08:29	Logged In By:	Caitlin Mars
Email:		ie Date:		17:00 (4 day TAT)		
Chain a	f Curtadu (COC)					
	<u>f Custody (COC)</u> the sample ID match the COC?		Yes			
	the number of samples per sampling site location match	the COC	Yes			
	samples dropped off by client or carrier?		Yes	Carrier: Courier		
	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes	Carrier. <u>Courier</u>		
	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	•	Yes		Commen	ts/Resolution
Sample	Turn Around Time (TAT)					
	ne COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	· •					
	sample cooler received?		Yes			
8. If yes	, was cooler received in good condition?		Yes			
9. Was t	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
	s, were custody/security seals intact?		NA			
-	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are rec		Yes			
12 If no	minutes of sampling visible ice, record the temperature. Actual sample ten	noroturo: 1º	r.			
		iperature. <u>+</u>	<u>c</u>			
	Container aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		No NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	e appropriate volume/weight or number of sample containers	collected?	Yes			
Field La		concettor.	105			
	e field sample labels filled out with the minimum information of the minimu	ation				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
_	<b>Preservation</b>					
	s the COC or field labels indicate the samples were prese	rved?	No			
	sample(s) correctly preserved?		NA			
24. Is la	b filteration required and/or requested for dissolved meta	ls?	No			
	ase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase?		No			
27. If ye	s, does the COC specify which phase(s) is to be analyzed	1?	NA			
Subcont	tract 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		
<u>Clien</u> t ]	Instruction					

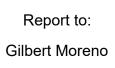


Date

envirotech Inc.

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

Released to Imaging: 11/14/2023 2:34:31 PM





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

# WPX Energy - Carlsbad

Project Name: RDX 16

RDX 16 #008

Work Order: E305154

Job Number: 01058-0007

Received: 5/25/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/30/23

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: 5/30/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #008 Workorder: E305154 Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,



Page 85 of 137

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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 reguarding 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

Field Offices:

**Southern New Mexico Area** Lynn Jarboe Technical Representative/Client Services

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West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

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## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH02 0.5'	5
BH02 4'	6
QC Summary Data	7
QC - Volatile Organics by EPA 8021B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

	Sample Sum	mary		
	Project Name:	RDX 16 #008		Reported:
	Project Number:	01058-0007		Reported:
	Project Manager:	Gilbert Moreno		05/30/23 17:25
Lak Samula ID	Matuin	Converte d	Deseived	Container
	Lak Samula ID	Project Name: Project Number:	Project Number: 01058-0007 Project Manager: Gilbert Moreno	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
BH02 0.5'	E305154-01A Soil	05/22/23	05/25/23	Glass Jar, 2 oz.
BH02 4'	E305154-02A Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



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Page 87 of 137

	5	ampic D	ala			
WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Numb	er: 010:	X 16 #008 58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			5/30/2023 5:25:21PM
		BH02 0.5'				
		E305154-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	ng/kg Analyst: SL			Batch: 2321067
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
p-Xylene	ND	0.0250	1	05/26/23	05/26/23	
o,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2321067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.8 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2321081
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
Surrogate: n-Nonane		92.0 %	50-200	05/26/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2321083
Chloride	278	20.0	1	05/26/23	05/26/23	

## Sample Data



	5	ample D	ala			
WPX Energy - Carlsbad	Project Name	e: RD2	X 16 #008			
5315 Buena Vista Dr	Project Numb	ber: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Mana	iger: Gilb	ert Moreno			5/30/2023 5:25:21PM
		BH02 4'				
		E305154-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2321067
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
o,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID		94.8 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2321067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.6 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2321081
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Dil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
Surrogate: n-Nonane		93.1 %	50-200	05/26/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2321083
Chloride	34.1	20.0	1	05/26/23	05/26/23	



## QC Summary Data

		QU DI	///////	ary Data	L				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	DX 16 #008 1058-0007 Gilbert Moreno					<b>Reported:</b> 5/30/2023 5:25:21PM
Carisbad Ivivi, 00220		, ,			1.D				
		volatile U	rganics	by EPA 802	IR				Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2321067-BLK1)							Prepared: 0	5/25/23 A	nalyzed: 05/26/23
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	7.69		8.00		96.2	70-130			
LCS (2321067-BS1)							Prepared: 0	5/25/23 A	nalyzed: 05/26/23
Benzene	4.84	0.0250	5.00		96.7	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
p-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			
Matrix Spike (2321067-MS1)				Source: 1	E305152-	02	Prepared: 0	5/25/23 A	analyzed: 05/26/23
Benzene	4.52	0.0250	5.00	ND	90.5	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.7	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			
Matrix Spike Dup (2321067-MSD1)				Source: l	E305152-	02	Prepared: 0	5/25/23 A	analyzed: 05/26/23
Benzene	4.10	0.0250	5.00	ND	81.9	54-133	9.94	20	
Ethylbenzene	4.34	0.0250	5.00	ND	86.7	61-133	9.63	20	
Toluene	4.39	0.0250	5.00	ND	87.9	61-130	9.60	20	
o-Xylene	4.43	0.0250	5.00	ND	88.6	63-131	10.1	20	
p,m-Xylene	8.83	0.0500	10.0	ND	88.3	63-131	9.41	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.4	63-131	9.66	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



## **QC Summary Data**

		QC BI	uIIIII	ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX 16 #008 1058-0007 Gilbert Moreno					<b>Reported:</b> 5/30/2023 5:25:21PM
	No	nhalogenated O	rganics	by EPA 801	5D - Gl	RO			Analyst: SL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	
					,,,	,,,	70	70	10005
Blank (2321067-BLK1)							Prepared: 0	5/25/23	Analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			
LCS (2321067-BS2)							Prepared: 0	5/25/23	Analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			
Matrix Spike (2321067-MS2)				Source: I	E305152-	02	Prepared: 0	5/25/23	Analyzed: 05/27/23
Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			
Matrix Spike Dup (2321067-MSD2)				Source: I	E305152-	02	Prepared: 0	5/25/23	Analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



### **QC Summary Data**

		QC S	umma	iry Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	DX 16 #008 1058-0007 ilbert Moreno					<b>Reported:</b> 5/30/2023 5:25:21PM
	Nonh	alogenated Org	anics 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
				g.ng	70	70	70	70	Notes
Blank (2321081-BLK1)							Prepared: 0	5/26/23 A	analyzed: 05/26/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			
LCS (2321081-BS1)							Prepared: 0	5/26/23 A	analyzed: 05/26/23
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			
Matrix Spike (2321081-MS1)				Source: <b>F</b>	305155-	01	Prepared: 0	5/26/23 A	analyzed: 05/26/23
Diesel Range Organics (C10-C28)	302	25.0	250	37.4	106	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			
Matrix Spike Dup (2321081-MSD1)				Source: <b>F</b>	305155-	01	Prepared: 0	5/26/23 A	analyzed: 05/26/23
Diesel Range Organics (C10-C28)	307	25.0	250	37.4	108	38-132	1.63	20	
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



### **QC Summary Data**

5	: 0	1058-0007					<b>Reported:</b> 5/30/2023 5:25:21P
Anions	by EPA	300.0/9056A	1				Analyst: RAS
Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
					Prepared: 05	5/26/23	Analyzed: 05/26/23
20.0							
					Prepared: 05	5/26/23	Analyzed: 05/26/23
20.0	250		98.5	90-110			
		Source:	E305153-(	1	Prepared: 05	5/26/23	Analyzed: 05/26/23
40.0	250	161	103	80-120			
		Source:	E305153-(	1	Prepared: 05	5/26/23	Analyzed: 05/26/23
40.0	250	161	105	80-120	1.25	20	
	Project Number Project Manager Anions Reporting Limit mg/kg 20.0 20.0 40.0	Project Number: 0 Project Manager: 0 Anions by EPA ( Reporting Spike Limit Level mg/kg mg/kg 20.0 20.0 20.0 250	Project Number:     01058-0007       Project Manager:     Gilbert Moreno       Anions by EPA 300.0/9056 A       Reporting     Spike     Source       Limit     Level     Result       mg/kg     mg/kg     mg/kg       20.0     250       20.0     250       40.0     250       161	Project Number:       01058-0007         Project Manager:       Gilbert Moreno         Anions by EPA 300.0/9056A       Image: Comparison of the second of the	Project Number:         01058-0007           Project Manager:         Gilbert Moreno           Anions by EPA 300.0/9056A         Rec         Rec           Reporting Limit         Spike Level         Result Result         Rec         Limits           mg/kg         mg/kg         mg/kg         %         %         %           20.0         250         98.5         90-110           Source:         E305153-01            40.0         250         161         103         80-120	Project Number:       01058-0007         Project Namager:       Gilbert Moreno         Anions by EPA 300.0/9056A          Reporting Limit       Spike Result Result Rec Limits RPD         mg/kg       mg/kg       %       %         20.0        Prepared: 0.00000000000000000000000000000000000	Project Number:       01058-0007         Project Manager:       Gilbert Moreno         Anions by EPA 300.0/9056A       Rec       Rec       Limits       RPD       Limit         Reporting       Spike       Source       Rec       Limits       RPD       Limit         mg/kg       mg/kg       mg/kg       %       %       %       %       %         20.0       Z50       98.5       90-110       Prepared: 05/26/23       Prepared: 05/26/23

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**

		2 • • • • • • • • • • •		
Γ	WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:25

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Reproject Information

		×
Page	1 of	ecer
		ve

Client: W	PX Energy Per	rmian LLC	2.			Bill To		Lab Use Only							TAT EPA Program					ogram	
	RDX 16 #008					Attention: Jim Raley		Lab	WO#	ŧ.		Job Number			1D 2D 3D			Standard		CWA	SDWA
Project N	lanager: Gilbe	ert Morer	10			Address: 5315 Buena Vista Dr.		E305154			01058-0007		-0007		1223		5 d	ay TAT			
ddress:	13000 W Cou	inty Rd 10	00			City, State, Zip: Carlsbad, NM, 8822	0							nd Metho	b						RCRA
ity, State	e, Zip_Odessa	,TX, 7976	55			Phone: 575-885-7502			þý												
	32-305-6415					Email: jim.raley@dvn.com	-		DRO											State	
mail: De	von-team@e	techenv.	com			WO: 21141253			0/0	-			0		MN			t	NM CO	UT AZ	TX
	by: Edyte Ko					Incident ID: nAPP2307930900		-	/DR	802	3260	010	300				1 T				
Time			No. of	1			Lab	h(ft	GRC	by	by 8	als 6	ride		S		U		_	_	
Sampled	Date Sampled	Matrix	Containers	Sample ID			Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC			Remarks	
10:20	5/22/2023	S	1			BH02	1	0.5'							x						
10:40	5/22/2023	S	1			BH02	2	4'							x						
ddition	al Instruction	s:																			
	oler), attest to the of collection is con					hat tampering with or intentionally mislabelling	the sample loc	ation,						iiring thermal p at an avg temp						and the second second second	d or recei
elinquishe Edyte	ed by: (Signature 2 Konan	)	Date ØS	124123 11	Contra Province	Sampled by: Received by: (Signature) MUCULLIC (UM XOL)	Date 524-	23	Time 1C	030				d on ice:	L	ab U	se On				
elinquishe MUCU	ed by: (Signature	yle	Date 5 Date	24-23	1815	Received by: (Signature)	Date J	4.33	Time	30		<u>T1</u>			<u>T2</u>			_ :	ТЗ		
HILK	ed by: (Signature	(Soo	5	24.32	400	Received by: (Signature) arth Man	5/25/	23	Time	20				np°C_1							
ote: Samp		d 30 days a	fter results	are reported ur		er arrangements are made. Hazardous sam h this COC. The liability of the laboratory is	ples will be	returne	ed to d	client	or dis	posed	l of at	, <b>ag</b> - ambo t the client o				ort for	the analys	s of the abo	ove
		0				Page 12	0 of 13			(	E	3	(	er	1	V	i r	' C	ot	e	2

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

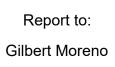
Client:	WPX Energy - Carlsbad D	ate Received:	05/25/23	08:20	Work Order ID:	E305154
Phone:	(539) 573-4018 D	ate Logged In:	05/25/23	08:30	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	ue Date:	06/01/23	17:00 (4 day TAT)		
Chain o	f Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was tl	he COC complete, i.e., signatures, dates/times, requested	d analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Comme	nts/Resolution
Sample	Turn Around Time (TAT)					
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
	sample cooler received?		Yes			
•	, was cooler received in good condition?		Yes			
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
	<ul> <li>he sample received on ice? If yes, the recorded temp is 4°C, i.e</li> <li>Note: Thermal preservation is not required, if samples are reminutes of sampling</li> <li>visible ice, record the temperature. Actual sample te</li> </ul>	eceived w/i 15	Yes <u>'C</u>			
Sample	Container					
14. Are a	aqueous VOC samples present?		No			
15. Are '	VOC samples collected in VOA Vials?		NA			
16. Is the	e 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 1	non-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample container	s collected?	Yes			
Field La	<u>abel</u>					
	e field sample labels filled out with the minimum inform	nation:				
	Sample ID? Date/Time Collected?		Yes			
	Collectors name?		Yes Yes			
	Preservation		103			
_	s the COC or field labels indicate the samples were pres	erved?	No			
	sample(s) correctly preserved?		NA			
	b filteration required and/or requested for dissolved met	als?	No			
<u>Mul</u> tiph	ase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase	?	No			
	s, does the COC specify which phase(s) is to be analyze		NA			
Subcont	tract Laboratory					
28. Are s	samples required to get sent to a subcontract laboratory	?	No			

Date



envirotech Inc.

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





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

# WPX Energy - Carlsbad

Project Name:

RDX 16 #008

Work Order:	E305155
WORK Order.	L000100

Job Number: 01058-0007

> Received: 5/25/2023

> > Revision: 1

**Report Reviewed By:** 

Walter Hinchman Laboratory Director 5/30/23

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: 5/30/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #008 Workorder: E305155 Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,



Page 98 of 137

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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 reguarding 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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West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH01 12'	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

v		Sample Sum	mary		0
WPX Energy - Carlsbad		Project Name:	RDX 16 #008		Depented
5315 Buena Vista Dr		Project Number:	01058-0007		Reported:
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		05/30/23 17:15
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 12'	E305155-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



	Di	ample D	ala			
WPX Energy - Carlsbad	Project Name:	RDZ	X 16 #008			
5315 Buena Vista Dr	Project Numbe	ect Number: 01058-000				Reported:
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moreno			5/30/2023 5:15:06PM
		BH01 12'				
	-	E305155-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2321067
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
p-Xylene	ND	0.0250	1	05/26/23	05/26/23	
o,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Fotal Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2321067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2321081
Diesel Range Organics (C10-C28)	37.4	25.0	1	05/26/23	05/26/23	
Dil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
Surrogate: n-Nonane		87.8 %	50-200	05/26/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2321083
Chloride	861	20.0	1	05/26/23	05/26/23	

### Sample Data



## **QC Summary Data**

	QC D		v					
	Project Name:							Reported:
	·							5/30/2023 5:15:06PM
	Project Manager:	G	ilbert Moreno					5/30/2023 5:15:06PM
	Volatile O	rganics b	oy EPA 802	1 <b>B</b>				Analyst: SL
Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 0	5/25/23 A	nalyzed: 05/26/23
ND	0.0250					-		-
ND	0.0250							
ND	0.0250							
ND	0.0250							
ND	0.0500							
ND	0.0250							
7.69		8.00		96.2	70-130			
					Prepared: 0	5/25/23 A	nalyzed: 05/26/23	
4.84	0.0250	5.00		96.7	70-130			
5.09	0.0250	5.00		102	70-130			
5.17	0.0250	5.00		103	70-130			
5.21	0.0250	5.00		104	70-130			
10.3	0.0500	10.0		103	70-130			
15.6	0.0250	15.0		104	70-130			
7.80		8.00		97.5	70-130			
			Source:	E305152-	02	Prepared: 0	5/25/23 A	nalyzed: 05/26/23
4.52	0.0250	5.00	ND	90.5	54-133			
4.77	0.0250	5.00	ND	95.5	61-133			
4.84	0.0250	5.00	ND	96.7	61-130			
4.90	0.0250	5.00	ND	98.1	63-131			
9.70	0.0500	10.0	ND	97.0	63-131			
14.6	0.0250	15.0	ND	97.3	63-131			
7.77		8.00		97.2	70-130			
			Source:	E305152-	02	Prepared: 0	5/25/23 A	nalyzed: 05/26/23
4.10	0.0250	5.00	ND	81.9	54-133	9.94	20	
4.34	0.0250	5.00	ND	86.7	61-133	9.63	20	
4.39	0.0250	5.00	ND	87.9	61-130	9.60	20	
4.43	0.0250	5.00	ND	88.6	63-131	10.1	20	
8.83	0.0500	10.0	ND	88.3	63-131	9.41	20	
	ND ND ND ND ND ND 7.69 4.84 5.09 5.17 5.21 10.3 15.6 7.80 4.52 4.77 4.84 4.90 9.70 14.6 7.77 4.84 4.39	Project Name: Project Number: Project Manager:           Volatile O           Result mg/kg         Reporting Limit mg/kg           ND         0.0250           7.69	Project Name:         RI           Project Number:         01           Project Manager:         G           Volatile Organics f           Result         Reporting mg/kg         Spike Limit         Level mg/kg           ND         0.0250	Project Name: Project Number: Project Manager:         RDX 16 #008 01058-0007 Gilbert Moreno           Volatile Organics by EPA 802           Result mg/kg         Spike Limit         Source Level           ND         0.0250 ND         mg/kg           ND         0.0250 ND         mg/kg           ND         0.0250 ND         uterel           ND         0.0250 ND         uterel           ND         0.0250 ND         uterel           1.69         8.00         uterel           4.84         0.0250 S.09         5.00 S.00           5.17         0.0250 S.00         5.00           5.21         0.0250 S.00         15.0           7.80         8.00         source           4.52         0.0250 S.00         15.0           7.80         8.00         source           4.52         0.0250 S.00         15.0           7.80         8.00         ND           4.484         0.0250 S.00         ND           9.0250         5.00         ND           9.0250         5.00         ND           10.3         0.0500         ND           4.52         0.0250         5.00           9.70	Project Name:         RDX 16 #008           Project Number:         01058-0007           Project Manager:         Gilbert Moreno           Volatile Organics by EPA 8021B           Result         Reporting Limit         Spike Level         Source Result         Rec           MD         0.0250         mg/kg         mg/kg         %           ND         0.0250         nD         0.0250           ND         0.0250         nD         102           7.69         8.00         96.7           5.01         104         103         104           10.3         0.0250         5.00         103           5.17         0.0250         5.00         104           10.3         0.0250         5.00         104           7.80         8.00         97.5<	Project Name:         RDX 16 #008           Project Number:         01058-0007           Project Manager:         Gilbert Moreno           Volatile Organics by EPA 8021B           Result         Reporting Limit         Spike Level         Source Result         Rec Mec         Rec Limits           ND         0.0250         mg/kg         mg/kg         %         %           ND         0.0250           %           ND         0.0250           70-130           ND         0.0250           70-130           ND         0.0250          70-130         70-130           ND         0.0250          70-130         70-130           ND         0.0250         5.00         103         70-130           5.09         0.0250         5.00         104         70-130           5.17         0.0250         5.00         104         70-130           5.21         0.0250         5.00         104         70-130           7.80         8.00         97.5         70-130           7.80         8.00         97.5         61-133 <t< td=""><td>Project Name: Project Number:         RDX 16 #008 01058-0007 Project Manager:         Result Gilbert Moreno           Volatile Organics by EPA 8021B           Result mg/kg         Reporting Mg/kg         Spike mg/kg         Source Mg/kg         Rec Mg/kg         <t< td=""><td>Project Name: Project Number: 01058-0007 Project Manager: Gilbert Moreno         RDX 16 #008 01058-0007 Project Manager: Gilbert Moreno         RDX 16 #008 Noreno           Result         Reporting Limit         Spike Level         Source Result         Rec Limits         RPD %         RPD %         RPD %           ND         0.0250 ND         0.0250 ND         9%         9%         9%         9%         9%           7.69         8.00         96.2         70-130         76.9         Prepared: 05/25/23 A           4.84         0.0250 ND         0.0250         102         70-130         Prepared: 05/25/23 A           5.09         0.0250 ND         5.00         102         70-130         Prepared: 05/25/23 A           4.84         0.0250 ND         5.00         103         70-130         Prepared: 05/25/23 A           5.17         0.0250         5.00         103         70-130         Prepared: 05/25/23 A           4.84         0.0250         5.00         104         70-130         Prepared: 05/25/23 A           4.52         0.0250         5.00         ND         95.5         61-133           4.44         0.0250         5.00         ND         95.5         61-133           4.52         0.0250         <t< td=""></t<></td></t<></td></t<>	Project Name: Project Number:         RDX 16 #008 01058-0007 Project Manager:         Result Gilbert Moreno           Volatile Organics by EPA 8021B           Result mg/kg         Reporting Mg/kg         Spike mg/kg         Source Mg/kg         Rec Mg/kg         Rec Mg/kg <t< td=""><td>Project Name: Project Number: 01058-0007 Project Manager: Gilbert Moreno         RDX 16 #008 01058-0007 Project Manager: Gilbert Moreno         RDX 16 #008 Noreno           Result         Reporting Limit         Spike Level         Source Result         Rec Limits         RPD %         RPD %         RPD %           ND         0.0250 ND         0.0250 ND         9%         9%         9%         9%         9%           7.69         8.00         96.2         70-130         76.9         Prepared: 05/25/23 A           4.84         0.0250 ND         0.0250         102         70-130         Prepared: 05/25/23 A           5.09         0.0250 ND         5.00         102         70-130         Prepared: 05/25/23 A           4.84         0.0250 ND         5.00         103         70-130         Prepared: 05/25/23 A           5.17         0.0250         5.00         103         70-130         Prepared: 05/25/23 A           4.84         0.0250         5.00         104         70-130         Prepared: 05/25/23 A           4.52         0.0250         5.00         ND         95.5         61-133           4.44         0.0250         5.00         ND         95.5         61-133           4.52         0.0250         <t< td=""></t<></td></t<>	Project Name: Project Number: 01058-0007 Project Manager: Gilbert Moreno         RDX 16 #008 01058-0007 Project Manager: Gilbert Moreno         RDX 16 #008 Noreno           Result         Reporting Limit         Spike Level         Source Result         Rec Limits         RPD %         RPD %         RPD %           ND         0.0250 ND         0.0250 ND         9%         9%         9%         9%         9%           7.69         8.00         96.2         70-130         76.9         Prepared: 05/25/23 A           4.84         0.0250 ND         0.0250         102         70-130         Prepared: 05/25/23 A           5.09         0.0250 ND         5.00         102         70-130         Prepared: 05/25/23 A           4.84         0.0250 ND         5.00         103         70-130         Prepared: 05/25/23 A           5.17         0.0250         5.00         103         70-130         Prepared: 05/25/23 A           4.84         0.0250         5.00         104         70-130         Prepared: 05/25/23 A           4.52         0.0250         5.00         ND         95.5         61-133           4.44         0.0250         5.00         ND         95.5         61-133           4.52         0.0250 <t< td=""></t<>



## **QC Summary Data**

		QC D	umme	ii y Data	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	01	DX 16 #008 .058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					5/30/2023 5:15:06PM
	No	nhalogenated C	Organics	by EPA 801	5D - Gl	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2321067-BLK1)							Prepared: 0	5/25/23 A	analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			
LCS (2321067-BS2)							Prepared: 0	5/25/23 A	analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			
Matrix Spike (2321067-MS2)				Source: I	E <b>305152-</b> (	02	Prepared: 0	5/25/23 A	analyzed: 05/27/23
Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			
Matrix Spike Dup (2321067-MSD2)				Source: I	E <b>305152-</b> (	02	Prepared: 0	5/25/23 A	analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



## **QC Summary Data**

		VC BI		ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	DX 16 #008 1058-0007 Gilbert Moreno					<b>Reported:</b> 5/30/2023 5:15:06PM
	Nonh	alogenated Orga	anics 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
Blank (2321081-BLK1)							Prepared: 0	5/26/23 A	Analyzed: 05/26/23
Diesel Range Organics (C10-C28)	ND	25.0					_		
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			
LCS (2321081-BS1)							Prepared: 0	5/26/23 A	Analyzed: 05/26/23
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			
Matrix Spike (2321081-MS1)				Source: F	305155-	01	Prepared: 0	5/26/23 A	Analyzed: 05/26/23
Diesel Range Organics (C10-C28)	302	25.0	250	37.4	106	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			
Matrix Spike Dup (2321081-MSD1)				Source: <b>E</b>	305155-	01	Prepared: 0	5/26/23 A	Analyzed: 05/26/23
Diesel Range Organics (C10-C28)	307	25.0	250	37.4	108	38-132	1.63	20	
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



### **QC Summary Data**

		$\mathbf{x} \in \mathbf{z}$							
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	DX 16 #008 1058-0007 ilbert Moreno					<b>Reported:</b> 5/30/2023 5:15:06PM
		Anions	by EPA 3	300.0/9056A	4				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
Blank (2321083-BLK1)							Prepared: 0	5/26/23	Analyzed: 05/26/23
Chloride	ND	20.0							
LCS (2321083-BS1)							Prepared: 0	5/26/23	Analyzed: 05/26/23
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2321083-MS1)				Source:	E305153-0	01	Prepared: 0	5/26/23	Analyzed: 05/26/23
Chloride	419	40.0	250	161	103	80-120			
Matrix Spike Dup (2321083-MSD1)				Source:	E305153-0	01	Prepared: 0	5/26/23	Analyzed: 05/26/23
Chloride	424	40.0	250	161	105	80-120	1.25	20	

QC Summary Report Comment:

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



WPX Energy - Carlsb	ad Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number	r: 01058-0007	Reported:
Carlsbad NM, 88220	Project Manage	er: Gilbert Moreno	05/30/23 17:15

ND	Analyte NOT DETECTED at or above the reporting limit
	· · · · · · · · · · · · · · · · · · ·

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Reproject Information

o,

Client: WPX Energy Permian LLC.			Bill To			Lab Use Only						TAT				EPA Program				
Project: RDX 16 #008					Attention: Jim Raley			Lab				Job Number		1D			Standard	CWA	SDWA	
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.			E305155		0.058-0007						5 day TAT				
Address:	13000 W Cou	inty Rd 10	00		City, State, Zip	carlsbad, NM, 8822	C					Analy	sis an	d Metho	d		-			RCRA
City, State, Zip_Odessa, TX, 79765				Phone: 575-885-7502				þγ			T			T	1	TT				
Phone: 4	32-305-6415				Email: jim.rale	ev@dvn.com		1	ORO										State	
	von-team@e	techenv.	com		WO: 2114125			1	0/0	-			0		WN			NM CO		TX
-	by: Edyte Ko					APP2307930900		-	/DR	802.	260	010	300				X		OI AL	
Time			No. of		Inclucine iD. in	1112307330300	Lab	h(ft	GRO	γd	by 8	ls 6	ide		8	1.1	U			
Sampled	Date Sampled	Matrix	Containers	Sample ID			Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	
10:00	5/22/2023	S	1		BH01		1	12'							x			4		1 J.A.
1																				
													-							
	3																			
	1					1														
																				-
			1												-			-		
Addition	al Instruction	is:		L				-						_		-				
I, (field sam	pler), attest to the	validity and a	uthenticity	of this sample. I am aw	are that tampering with	or intentionally mislabelling t	he sample loca	ation,		_		Sample	s requiri	ng thermal p	reserva	tion mu	st be rece	eived on ice the day	they are sample	ed or received
date or time	of collection is con	nsidered frau	d and may b	e grounds for legal act	on.	Sampled by:			_		_	packed	in ice at	an avg temp	above	0 but le	ss than 6	°C on subsequent da	iys.	
Relinquished by: (Signature) Date Time Egyte Konan 05/221123 1033				BO Michael Cumple 5-24			23 1030			)	Lab Use Only Received on ice: (Y)/ N									
Relinquished by: (Signature) Date J-24:23 Time				IS Received	(Signature)	Date J	123	23 Time 30			T1 T2				-					
Relinquished by: (Signature) Data Time			20 Received by	(Signature)	Date 5/25/	23	Time 8	20	>	AVG Temp °C		1								
Sample Mat	rix: S - Soil, Sd - So	lid, Sg - Sludg	e, A - Aqueo	us, O - Other			Container	Туре	: g - g	lass,					er gla	ss, v -	VOA			
					other arrangements	are made. Hazardous sam												rt for the analys	is of the abo	ove
						ability of the laboratory is l									1			and another	and the abe	0
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										1	0	5				- 1				
											-	5	E					ot	<b>e</b> (	
						Page 11	of 12				~								~	-
																				e e

#### **Envirotech Analytical Laboratory**

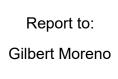
Sample Receipt Checklist (SRC)

Client:	WPX Energy - Carlsbad D	ate Received:	05/25/23	08:20	Work Order ID:	E305155
Phone:	(539) 573-4018 D	ate Logged In:	05/25/23	08:31	Logged In By:	Caitlin Mars
Email:		ue Date:	06/01/23	17:00 (4 day TAT)		
Chain o	f 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	Carrier: Courier		
4. Was t	he COC complete, i.e., signatures, dates/times, requested	d analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
<u>Sample</u>	Turn Around Time (TAT)					
-	ne COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	Cooler_					
	a sample cooler received?		Yes			
8. If yes	, was cooler received in good condition?		Yes			
9. Was t	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was 1	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample ter	mperature: <u>4°</u>	<u>C</u>			
Sample	Container					
14. Are	aqueous VOC samples present?		No			
15. Are	VOC samples collected in VOA Vials?		NA			
16. Is th	e 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	e appropriate volume/weight or number of sample containers	s collected?	Yes			
Field La	abel					
	e field sample labels filled out with the minimum inform	nation:				
	Sample ID? Data/Time Callected?		Yes			
	Date/Time Collected? Collectors name?		Yes Yes			
	Preservation_		105			
	s the COC or field labels indicate the samples were prese	erved?	No			
	sample(s) correctly preserved?		NA			
	b filteration required and/or requested for dissolved meta	als?	No			
Multiph	nase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase?	2	No			
	es, does the COC specify which phase(s) is to be analyze		NA			
	tract Laboratory					
	samples required to get sent to a subcontract laboratory?	2	No			
29. Was	a subcontract laboratory specified by the client and if so	o who?	NA	Subcontract Lab: NA		
Client ]	Instruction					

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



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5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

# WPX Energy - Carlsbad

Project Name: RDX 16

RDX 16 #008

Work Order: E305156

Job Number: 01058-0007

Received: 5/25/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 6/2/23

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: 6/2/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #008 Workorder: E305156 Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,



Page 110 of 137

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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 reguarding 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

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Envirotech Web Address: www.envirotech-inc.com

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# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH01 7'	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

*		Sample Sum	mary		Ŭ
WPX Energy - Carlsbad		Project Name:	RDX 16 #008		Reported:
5315 Buena Vista Dr		Project Number:	01058-0007		Reporteu:
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		06/02/23 12:28
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 7'	E305156-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



		ampic D	ata			
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	er: 0103	X 16 #008 58-0007 ert Moreno			<b>Reported:</b> 6/2/2023 12:28:33PM
		BH01 7'				
		E305156-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2321067
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
p-Xylene	ND	0.0250	1	05/26/23	05/26/23	
o,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Fotal Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2321067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2321081
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Dil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
Surrogate: n-Nonane		87.4 %	50-200	05/26/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: RAS		Batch: 2321083
Chloride	666	20.0	1	05/26/23	05/26/23	

### Sample Data



## **QC Summary Data**

	QC D	u	ing Duu	и				
	Project Name: Project Number:							Reported:
	Project Manager:							6/2/2023 12:28:33PM
	Volatile O	rganics l	by EPA 802	1 <b>B</b>				Analyst: SL
D li	Reporting	Spike	Source	D	Rec	DDD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 0	5/25/23 A	nalvzed: 05/26/23
ND	0.0250							
7.69	0.0250	8.00		96.2	70-130			
						Prepared: 0	5/25/23 A	nalyzed: 05/26/23
4.84	0.0250	5.00		96.7	70-130			
5.09	0.0250	5.00		102	70-130			
5.17	0.0250	5.00		103	70-130			
5.21	0.0250	5.00		104	70-130			
10.3	0.0500	10.0		103	70-130			
15.6	0.0250	15.0		104	70-130			
7.80		8.00		97.5	70-130			
			Source:	E305152-	02	Prepared: 0	5/25/23 A	nalyzed: 05/26/23
4.52	0.0250	5.00	ND	90.5	54-133			
4.77	0.0250	5.00	ND	95.5	61-133			
4.84	0.0250	5.00	ND	96.7	61-130			
4.90	0.0250	5.00	ND	98.1	63-131			
9.70	0.0500	10.0	ND	97.0	63-131			
14.6	0.0250	15.0	ND	97.3	63-131			
7.77		8.00		97.2	70-130			
			Source:	E305152-	02	Prepared: 0	5/25/23 A	analyzed: 05/26/23
4.10	0.0250	5.00	ND	81.9	54-133	9.94	20	
4.34	0.0250	5.00	ND	86.7	61-133	9.63	20	
4.39	0.0250	5.00	ND	87.9	61-130	9.60	20	
4.43	0.0250	5.00	ND	88.6	63-131	10.1	20	
	010250							
8.83	0.0500	10.0 15.0	ND ND	88.3 88.4	63-131 63-131	9.41 9.66	20 20	
	ND ND ND ND ND ND 7.69 4.84 5.09 5.17 5.21 10.3 15.6 7.80 4.52 4.77 4.84 4.90 9.70 14.6 7.77 4.10 4.34 4.39	Project Name: Project Number: Project Manager:           Volatile O           Result mg/kg         Reporting Limit mg/kg           ND         0.0250           7.69	Project Name:         R Project Number:         0           Project Manager:         G           Volatile Organics         Spike Level           mg/kg         Reporting mg/kg         Spike Level           ND         0.0250           7.69         \$.00           5.17         0.0250           5.00         5.00           5.17         0.0250           7.80         \$.00           4.52         0.0250           7.80         \$.00           4.52         0.0250           5.00         5.00           4.77	Project Name: Project Number: Project Manager:         RDX 16 #008 01058-0007 Gilbert Moreno           Volatile Organics by EPA 802           Result mg/kg         Spike Limit         Source Level           ND         0.0250 ND         mg/kg           ND         0.0250 ND         mg/kg           ND         0.0250 ND         0.0250 ND           ND         0.0250 ND	Project Name:         RDX 16 #008           Project Number:         01058-0007           Project Manager:         Gilbert Moreno           Volatile Organics by EPA 8021B           Result         Reporting Limit         Spike Level         Source Result         Rec           mg/kg         mg/kg         mg/kg         mg/kg         %           ND         0.0250         mg/kg         mg/kg         %           ND         0.0250         ND         0.0250           ND         0.0250         102           7.69         8.00         96.7           4.84         0.0250         5.00         102           5.17         0.0250         5.00         103           5.21         0.0250         5.00         104           7.69         8.00         97.5           Source: E305152-           4.52         0.0250         5.00         ND         96.7	Project Name: Project Number: Olio58-0007         RDX 16 #008 01058-0007           Project Manager:         Gilbert Moreno           Volatile Organics by EPA 8021B           Result mg/kg         Reporting mg/kg         Spike mg/kg         Source Result mg/kg         Rec mg/kg         Rec mg/kg         Rec %         Rec Limits           ND         0.0250         mg/kg         mg/kg         %         %           ND         0.0250         mg/kg         96.2         70-130           ND         0.0250          102         70-130           ND         0.0250          102         70-130           ND         0.0250          103         70-130           ND         0.0250         104         70-130           ND         0.0250         104         70-130           S.09         97.5         70-130           5.21         0.0250         5.00         104         70-130           7.80         8.00         97.5         70-130           7.80         8.00         97.5         70-130           15.6         0.0250         5.00         ND         95.5         61-133           4.52         0.0250	Project Name: Project Number:         RDX 16 #008 01058-0007 Project Manager:         Result Gilbert Moreno           Volatile Organics by EPA 8021B           Result mg/kg         Reporting mg/kg         Spike mg/kg         Source mg/kg         Rec mg/kg         Rec %         %         %           ND         0.0250 ND         0.0250 ND         9%         %         %         %           ND         0.0250 ND         0.0250 ND         70-130         Prepared: 0           ND         0.0250 ND         0.0250 ND         96.2         70-130           7.69         8.00         96.7         70-130           7.69         5.00         102         70-130           5.17         0.0250         5.00         103         70-130           5.21         0.0250         5.00         104         70-130           5.21         0.0250         5.00         104         70-130           7.80         8.00         97.5         70-130           7.80         8.00         97.5         70-130           4.52         0.0250         5.00         ND         95.5           4.52         0.0250         5.00         ND         95.5           4.52 <td< td=""><td>Project Name:         RDX 16 #008           Project Number:         01058-0007           Project Manager:         Gilbert Moreno           Volatile Organics by EPA 8021B           Result         Reporting Limit         Spike Level         Source Result         Rec         Limit RPD         RPD Limit           mg/kg         mg/kg         mg/kg         %         %         %         %           ND         0.0250         ND         0.0250          Prepared: 05/25/23         A           ND         0.0250         ND         0.0250          Prepared: 05/25/23         A           7.69         8.00         96.7         70-130          Prepared: 05/25/23         A           4.84         0.0250         5.00         102         70-130          Prepared: 05/25/23         A           5.17         0.0250         5.00         103         70-130           A           7.80         8.00         97.5         70-130               7.80         8.00         97.5         70-130</td></td<>	Project Name:         RDX 16 #008           Project Number:         01058-0007           Project Manager:         Gilbert Moreno           Volatile Organics by EPA 8021B           Result         Reporting Limit         Spike Level         Source Result         Rec         Limit RPD         RPD Limit           mg/kg         mg/kg         mg/kg         %         %         %         %           ND         0.0250         ND         0.0250          Prepared: 05/25/23         A           ND         0.0250         ND         0.0250          Prepared: 05/25/23         A           7.69         8.00         96.7         70-130          Prepared: 05/25/23         A           4.84         0.0250         5.00         102         70-130          Prepared: 05/25/23         A           5.17         0.0250         5.00         103         70-130           A           7.80         8.00         97.5         70-130               7.80         8.00         97.5         70-130



## **QC Summary Data**

		QC D	u1111116	ii y Data	L				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	0	DX 16 #008 1058-0007					<b>Reported:</b>
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					6/2/2023 12:28:33PM
	No	nhalogenated C	Organics	by EPA 801	5D - GI	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2321067-BLK1)							Prepared: 0	5/25/23 A	nalyzed: 05/26/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			
LCS (2321067-BS2)							Prepared: 0	5/25/23 A	analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			
Matrix Spike (2321067-MS2)				Source: I	E <b>305152-</b> (	)2	Prepared: 0	5/25/23 A	nalyzed: 05/27/23
Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			
Matrix Spike Dup (2321067-MSD2)				Source: I	E305152-(	)2	Prepared: 0	5/25/23 A	analyzed: 05/26/23
Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



## **QC Summary Data**

		QC DI		ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	C	RDX 16 #008 01058-0007 Gilbert Moreno					<b>Reported:</b> 6/2/2023 12:28:33PM
	Nonh	alogenated Orga	anics by	y 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
Blank (2321081-BLK1)							Prepared: 0	5/26/23 A	analyzed: 05/26/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			
LCS (2321081-BS1)							Prepared: 0	5/26/23 A	analyzed: 05/26/23
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			
Matrix Spike (2321081-MS1)				Source: <b>F</b>	305155-	01	Prepared: 0	5/26/23 A	analyzed: 05/26/23
Diesel Range Organics (C10-C28)	302	25.0	250	37.4	106	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			
Matrix Spike Dup (2321081-MSD1)				Source: <b>E</b>	305155-	01	Prepared: 0	5/26/23 A	analyzed: 05/26/23
Diesel Range Organics (C10-C28)	307	25.0	250	37.4	108	38-132	1.63	20	
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



#### **QC Summary Data**

				J –	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	0	DX 16 #008 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					6/2/2023 12:28:33PM
		Anions	by EPA	300.0/9056A	1				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2321083-BLK1)							Prepared: 0	5/26/23	Analyzed: 05/26/23
Chloride	ND	20.0							
LCS (2321083-BS1)							Prepared: 0	5/26/23	Analyzed: 05/26/23
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2321083-MS1)				Source:	E305153-(	)1	Prepared: 0	5/26/23	Analyzed: 05/26/23
Chloride	419	40.0	250	161	103	80-120			
Matrix Spike Dup (2321083-MSD1)				Source:	E305153-(	)1	Prepared: 0	5/26/23	Analyzed: 05/26/23
Chloride	424	40.0	250	161	105	80-120	1.25	20	

QC Summary Report Comment:

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



WPX Energy - Carlsbad	Project Name: RDX 16 #008	
5315 Buena Vista Dr	Project Number: 01058-0007	Reported:
Carlsbad NM, 88220	Project Manager: Gilbert Moreno	06/02/23 12:28

ND	Analyte NOT DETECTED at or above the reporting limit
	· · · · · · · · · · · · · · · · · · ·

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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: W	PX Energy Pe	rmian LLC				Bill To					La	ıb Us	e On	ly			1.5	Т	AT		EPA P	rogram
	RDX 16 #008				A	ttention: Jim Raley			Lab WO# Job Number					10	1D 2D 3D Standard			andard	CWA	SDWA		
Project N	lanager: Gilbe	ert Moren	0		A	ddress: 5315 Buena Vista Dr.			E305156 01058-				-0007				5	day TAT		1.000		
Address:	13000 W Cou	inty Rd 10	00		C	ity, State, Zip: Carlsbad, NM, 882	220		Analys				sis a	nd Metho	od	-					RCRA	
City, Stat	e, Zip Odessa	,TX, 7976	5		P	hone: 575-885-7502				þ						1		1	1			
Phone: 4	32-305-6415				E	mail: jim.raley@dvn.com			1	ORO											State	
	evon-team@e	techenv.	com			VO: 21141253				0/0	-	-		0		MN				NM CO		TX
	by: Edyte Ko					ncident ID: nAPP2307930900			1	/DB	802	260	010	300				Ĕ				
Time	10.000		No. of	2	and the second of			Lab	h(ft.	GRO	by	by 8	lls 6	ide		0		0			<u> </u>	
Sampled	Date Sampled	Matrix	Containers	Sample ID				umber	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	3	GDOC	1		Remarks	
9:40	5/22/2023	S	1			BH01		1	7'							X			d.			
																+	-	-				
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1000																						
Addition	al Instruction	IS:														-		1	-			
I, (field sam	pler), attest to the	validity and a	uthenticity	of this sample	I am aware th	at tampering with or intentionally mislabelli	ng the sa	imple loc	ation,		_	-	Sample	es requi	ring thermal	preser	vation m	ust be re	eceived	on ice the day th	hey are sampl	ed or received
date or time	e of collection is co	nsidered frau	d and may b	e grounds for	legal action.	Sampled by:							packed	In ice a	at an avg tem	np abov	e 0 but l	less than	6 °C on	subsequent day	/s.	
	ed by: (Signature Mondr	2)	Date OS	124/23	Time 10 <b>1</b> 30	Received by: (Signature)	Dat	te -24	23	Time	30	)	Rece	aived	on ice:		Lab L	Jse Or	nly			
	ed by: (Signature	in role			Time 1815	Received by: (Signature)		5.24		Time	22		T1	. IV C G	on ice.	T2				ТЗ		
Relinquish	ed by: (Signature	al part	Date		Time 11/2	Received by: (Signature)		te	1	Time	2				. 4	4			-	13		
1110	en mu	0-0	12	· W.D	1400	Carth Man	C	165/0	13	0.	10			_	np°C_	1	-					
	trix: S - Soil, Sd - So														ag - amb							
						arrangements are made. Hazardous s									the client	expe	nse. 1	The rep	port fo	r the analysi	s of the ab	ove
samples is	applicable only t	o those san	nples receiv	ed by the la	boratory with	this COC. The liability of the laboratory	is limite	ed to the	e amo	unt pa	id for	on th	e repo	ort.				_				¢
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						Page	11 of	12				~					W				~	
						9-	-															

#### **Envirotech Analytical Laboratory**

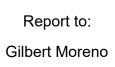
Sample Receipt Checklist (SRC)

Client:	WPX Energy - Carlsbad Da	ate Received:	05/25/23	08:20	Work Order ID:	E305156
Phone:	(539) 573-4018 Da	ate Logged In:	05/25/23	08:32	Logged In By:	Caitlin Mars
Email:		ue Date:		17:00 (4 day TAT)		
Chain o	f 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	Carrier: Courier		
4. Was tl	ne COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
Sample	<u>Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	<u>Cooler</u>					
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re		Yes			
13. If no	minutes of sampling visible ice, record the temperature. Actual sample ter	nperature: <u>4°</u>	<u>C</u>			
Sample	<u>Container</u>					
14. Are a	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample containers	s collected?	Yes			
Field La						
	e field sample labels filled out with the minimum inform	ation:	17			
	Sample ID? Date/Time Collected?		Yes			
	Collectors name?		Yes Yes			
	Preservation		105			
	the COC or field labels indicate the samples were prese	erved?	No			
	sample(s) correctly preserved?		NA			
	o filteration required and/or requested for dissolved meta	als?	No			
<u>M</u> ultiph	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphase?		No			
	s, does the COC specify which phase(s) is to be analyzed		NA			
Subcont	ract Laboratory					
	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		
<u>Client l</u>	Instruction					

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



envirotech Inc.





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

# WPX Energy - Carlsbad

Project Name:

RDX 16 #008

Work Order: E305157

Job Number: 01058-0007

> Received: 5/25/2023

> > Revision: 1

**Report Reviewed By:** 

Walter Hinchman Laboratory Director 5/31/23

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: 5/31/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #008 Workorder: E305157 Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,



Page 122 of 137

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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 reguarding 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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## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH01 0.5'	5
BH01 4'	6
QC Summary Data	7
QC - Volatile Organics by EPA 8021B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

# Page 124 of 137 Sample Summary

		Sample Summary							
WPX Energy - Carlsbad		Project Name:	RDX 16 #008		Reported:				
5315 Buena Vista Dr		Project Number:	01058-0007		Reporteu:				
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		05/31/23 12:56				
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container				
Client Sample ID BH01 0.5'	Lab Sample ID E305157-01A	<b>Matrix</b> Soil	<b>Sampled</b> 05/22/23	<b>Received</b> 05/25/23	<b>Container</b> Glass Jar, 2 oz.				



	50	ampie D	ala			
WPX Energy - Carlsbad	Project Name:	RD	X 16 #008			
5315 Buena Vista Dr	Project Numbe	er: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moreno			5/31/2023 12:56:56PM
		BH01 0.5'				
	-	E305157-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2321067
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
p-Xylene	ND	0.0250	1	05/26/23	05/26/23	
o,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2321067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.8 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2321081
Diesel Range Organics (C10-C28)	32.7	25.0	1	05/26/23	05/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/27/23	
Surrogate: n-Nonane		81.2 %	50-200	05/26/23	05/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2321083
Chloride	5290	40.0	2	05/26/23	05/30/23	

#### Sample Data

	58	imple D	ala			
WPX Energy - Carlsbad	Project Name:	RDZ	K 16 #008			
5315 Buena Vista Dr	Project Numbe	er: 0105	58-0007			Reported:
Carlsbad NM, 88220	Project Manager: Gilbert Moreno					5/31/2023 12:56:56PM
		BH01 4'				
	]	E305157-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2321067
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
oluene	ND	0.0250	1	05/26/23	05/26/23	
-Xylene	ND	0.0250	1	05/26/23	05/26/23	
,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
urrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2321067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		88.9 %	70-130	05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM	Batch: 2321081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/27/23	
Dil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/27/23	
urrogate: n-Nonane		87.6 %	50-200	05/26/23	05/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2321083
Chloride	1510	20.0	1	05/26/23	05/26/23	



# **QC Summary Data**

	QU DI		I J Duu	4				
	Project Name:							Reported:
	•	0	1058-0007					
	Project Manager:	G	ilbert Moreno					5/31/2023 12:56:56PM
	Volatile O	rganics	by EPA 802	1B				Analyst: SL
Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 0	5/25/23 A	nalyzed: 05/26/23
ND	0.0250					-		-
ND								
ND								
ND								
ND								
7.69		8.00		96.2	70-130			
						Prepared: 0	5/25/23 A	nalyzed: 05/26/23
4.84	0.0250	5.00		96.7	70-130			
5.09	0.0250	5.00		102	70-130			
5.17	0.0250	5.00		103	70-130			
5.21	0.0250	5.00		104	70-130			
10.3	0.0500	10.0		103	70-130			
15.6	0.0250	15.0		104	70-130			
7.80		8.00		97.5	70-130			
			Source:	E305152-	02	Prepared: 0	5/25/23 A	analyzed: 05/26/23
4.52	0.0250	5.00	ND	90.5	54-133			
4.77	0.0250	5.00	ND	95.5	61-133			
4.84	0.0250	5.00	ND	96.7	61-130			
4.90	0.0250	5.00	ND	98.1	63-131			
9.70	0.0500	10.0	ND	97.0	63-131			
14.6	0.0250	15.0	ND	97.3	63-131			
7.77		8.00		97.2	70-130			
			Source:	E305152-	02	Prepared: 0	5/25/23 A	analyzed: 05/26/23
4.10	0.0250	5.00	ND	81.9	54-133	9.94	20	
4.34	0.0250	5.00	ND	86.7	61-133	9.63	20	
4.39	0.0250	5.00	ND	87.9	61-130	9.60	20	
	0.0250	5.00	ND	88.6	63-131	10.1	20	
4.43	0.0250	5.00	ND	00.0	05 151			
4.43 8.83	0.0250	10.0	ND	88.3	63-131	9.41	20	
	ND ND ND ND ND 7.69 4.84 5.09 5.17 5.21 10.3 15.6 7.80 4.52 4.77 4.84 4.90 9.70 14.6 7.77 4.10 4.34	Project Name: Project Number: Project Manager:           Volatile Or           Result mg/kg         Reporting Limit mg/kg           ND         0.0250           7.69	Project Name:         R Project Number:         0 0           Project Manager:         0           Volatile Organics         Spike Level           mg/kg         mg/kg           ND         0.0250           S.09         5.00           5.17         0.0250           5.00         5.00           5.17         0.0250           10.3         0.0500           10.3         0.0250           5.00         5.00           4.52         0.0250           5.00         5.00           4.90         0.0250      <	Project Name: Project Number: Project Manager:         RDX 16 #008 01058-0007 Gilbert Moreno           Volatile Organics by EPA 802           Result mg/kg         Reporting mg/kg         Spike mg/kg         Source Result mg/kg           ND         0.0250 ND         0.0250 ND         0.0250 ND           ND         0.0250 ND         0.0250 ND         0.0250 ND           ND         0.0250 ND         0.0250 ND         0.0250 ND           ND         0.0250 ND         0.0250 ND         0.0250 ND           ND         0.0250 ND         0.0250 ND         0.0250           ND         0.0250 ND         5.00         5.00           SL         0.0250         5.00         5.00           S.09         0.0250         5.00         5.00           SL         0.0250         5.00         5.00           S.17         0.0250         5.00         5.00           15.6         0.0250         5.00         ND           15.6         0.0250         5.00         ND           4.52         0.0250         5.00         ND           4.52         0.0250         5.00         ND           4.77         0.0250         5.00         ND <t< td=""><td>ND         0.0250         Spike         Source           Result         mg/kg         mg/kg         mg/kg         %           ND         0.0250         mg/kg         mg/kg         %           ND         0.0250         mg/kg         mg/kg         %           ND         0.0250         mg/kg         %         %           100         0.0250         mg/kg         %         %           1010         0.0250         5.00         103         103           5.17         0.0250         5.00         104         103           10.3         0.0500         100         103         15.6           10.250         5.00         ND         95.5           4.52         0.0250</td><td>Project Name:         RDX 16 #008           Project Number:         01058-0007           Project Manager:         Gilbert Moreno           Volatile Organics by EPA 8021B           Result         Reporting Limit         Spike Level         Source Result         Rec Limits           MD         0.0250         mg/kg         mg/kg         %         %           ND         0.0250         mb         7.69         8.00         96.2         70-130           ND         0.0250         nD         0.0250         103         70-130           ND         0.0250         102         70-130         70-130           Supponder         5.00         103         70-130           5.09         0.0250         103         70-130           ND         0.0250         5.00         104         70-130           5.17         0.0250         5.00         104         70-130           5.21         0.0250         5.00         104         70-130           7.80         8.00         97.5         70-130           7.80         8.00         97.5         70-130           15.6         0.0250         5.00         ND         90.5</td><td>Project Name: Project Number: O1058-0007 Project Manager:         RDX 16 #008 O1058-0007 Gilbert Moreno           Volatile Organics by EPA 8021B           Result mg/kg         Reporting Limit mg/kg         Spike mg/kg         Source Result mg/kg         Rec Mg/kg         Rec %         Rec %         Rec %         Rep %           ND         0.0250 ND         0.0250 ND         9%         9%         %         %           7.69         8.00         96.2         70-130 Prepared: 0         Prepared: 0           4.84         0.0250 ND         0.0250         Prepared: 0           5.09         0.0250 ND         96.7         70-130 Prepared: 0           5.17         0.0250 ND         5.00         103         70-130 Prepared: 0           5.12         0.0250         5.00         103         70-130           5.21         0.0250         5.00         103         70-130           5.21         0.0250         5.00         103         70-130           7.80         8.00         97.5         70-130         Prepared: 0           4.52         0.0250         5.00         ND         90.5         54-133           4.52         0.0250         5.00         ND         9.5         54-133</td><td>Project Name: Project Number:         RDX 16 #008 01058-0007 Project Manager:         Gilbert Moreno           Volatile Organics by EPA 8021B         Source Result         Rec Limit         Reporting mg/kg         Spike mg/kg         Source mg/kg         Rec %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %</td></t<>	ND         0.0250         Spike         Source           Result         mg/kg         mg/kg         mg/kg         %           ND         0.0250         mg/kg         mg/kg         %           ND         0.0250         mg/kg         mg/kg         %           ND         0.0250         mg/kg         %         %           100         0.0250         mg/kg         %         %           1010         0.0250         5.00         103         103           5.17         0.0250         5.00         104         103           10.3         0.0500         100         103         15.6           10.250         5.00         ND         95.5           4.52         0.0250	Project Name:         RDX 16 #008           Project Number:         01058-0007           Project Manager:         Gilbert Moreno           Volatile Organics by EPA 8021B           Result         Reporting Limit         Spike Level         Source Result         Rec Limits           MD         0.0250         mg/kg         mg/kg         %         %           ND         0.0250         mb         7.69         8.00         96.2         70-130           ND         0.0250         nD         0.0250         103         70-130           ND         0.0250         102         70-130         70-130           Supponder         5.00         103         70-130           5.09         0.0250         103         70-130           ND         0.0250         5.00         104         70-130           5.17         0.0250         5.00         104         70-130           5.21         0.0250         5.00         104         70-130           7.80         8.00         97.5         70-130           7.80         8.00         97.5         70-130           15.6         0.0250         5.00         ND         90.5	Project Name: Project Number: O1058-0007 Project Manager:         RDX 16 #008 O1058-0007 Gilbert Moreno           Volatile Organics by EPA 8021B           Result mg/kg         Reporting Limit mg/kg         Spike mg/kg         Source Result mg/kg         Rec Mg/kg         Rec %         Rec %         Rec %         Rep %           ND         0.0250 ND         0.0250 ND         9%         9%         %         %           7.69         8.00         96.2         70-130 Prepared: 0         Prepared: 0           4.84         0.0250 ND         0.0250         Prepared: 0           5.09         0.0250 ND         96.7         70-130 Prepared: 0           5.17         0.0250 ND         5.00         103         70-130 Prepared: 0           5.12         0.0250         5.00         103         70-130           5.21         0.0250         5.00         103         70-130           5.21         0.0250         5.00         103         70-130           7.80         8.00         97.5         70-130         Prepared: 0           4.52         0.0250         5.00         ND         90.5         54-133           4.52         0.0250         5.00         ND         9.5         54-133	Project Name: Project Number:         RDX 16 #008 01058-0007 Project Manager:         Gilbert Moreno           Volatile Organics by EPA 8021B         Source Result         Rec Limit         Reporting mg/kg         Spike mg/kg         Source mg/kg         Rec %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %         %



## **QC Summary Data**

		QC D	umm	ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM 88220		Project Name: Project Number:	0	2DX 16 #008 1058-0007 Gilbert Moreno					<b>Reported:</b> 5/31/2023 12:56:56PM
Carlsbad NM, 88220		Project Manager:	G	filbert Moreno					5/31/2023 12:56:56PM
	No	nhalogenated (	Organics	by EPA 801	5D - Gl	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2321067-BLK1)							Prepared: 0	5/25/23 A	nalyzed: 05/26/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			
LCS (2321067-BS2)							Prepared: 0	5/25/23 A	nalyzed: 05/26/23
Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			
Matrix Spike (2321067-MS2)				Source: I	305152-	02	Prepared: 0	5/25/23 A	nalyzed: 05/27/23
Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			
Matrix Spike Dup (2321067-MSD2)				Source: I	305152-	02	Prepared: 0	5/25/23 A	nalyzed: 05/26/23
Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



## **QC Summary Data**

		QC D	umm	aly Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	C	RDX 16 #008 01058-0007 Gilbert Moreno					<b>Reported:</b> 5/31/2023 12:56:56PM
	Nonh	alogenated Org	anics by	v 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
Blank (2321081-BLK1)							Prepared: 0	5/26/23 A	Analyzed: 05/26/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			
LCS (2321081-BS1)							Prepared: 0	5/26/23 A	Analyzed: 05/26/23
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			
Matrix Spike (2321081-MS1)				Source: <b>F</b>	305155-	01	Prepared: 0	5/26/23 A	Analyzed: 05/26/23
Diesel Range Organics (C10-C28)	302	25.0	250	37.4	106	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			
Matrix Spike Dup (2321081-MSD1)				Source: <b>F</b>	305155-	01	Prepared: 0	5/26/23 A	Analyzed: 05/26/23
Diesel Range Organics (C10-C28)	307	25.0	250	37.4	108	38-132	1.63	20	
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



#### **QC Summary Data**

				Reported:
				5/31/2023 12:56:56P
				Analyst: RAS
Rec	Rec Limits	RPD	RPD Limit	
%	%	%	%	Notes
		Prepared: 05	/26/23 #	Analyzed: 05/26/23
		Prepared: 05	/26/23 /	Analyzed: 05/26/23
98.5	90-110			
2305153-01		Prepared: 05	/26/23 /	Analyzed: 05/26/23
103	80-120			
2305153-01		Prepared: 05	/26/23 /	Analyzed: 05/26/23
105	80-120	1.25	20	
	% 98.5 E305153-01 103 E305153-01	Rec         Rec           %         %           98.5         90-110           2305153-01         103           80-120         2305153-01	Rec Nec         Rec Limits         RPD           %         %         %           %         %         %           Prepared: 05         98.5         90-110           E305153-01         Prepared: 05         05           103         80-120         90           E305153-01         Prepared: 05         91	Rec binits         Rec prepared:         RPD binit %         RPD %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %           %         %         %

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.



WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/31/23 12:56

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Release

Client: W	PX Energy Pe	rmian LLC				Bill To					La	b Us	e On	ly				TA	т	EPA Pr	ogram
	RDX 16 #008					Attention: Jim Raley			Lab	WO#		-	Job Number			1D	2D	3D	Standard	CWA	SDWA
	lanager: Gilbe					Address: 5315 Buena Vista	a Dr.		Lab EC	305	15'	7	010	58	1000-				5 day TAT		
	13000 W Cou					City, State, Zip: Carlsbad, M	NM, 88220		1	999			Analy	sis ai	nd Method	ł					RCRA
City, Stat	e, Zip_Odessa	a,TX, 7976	65			Phone: 575-885-7502				bγ											
	32-305-6415					Email: jim.raley@dvn.com	1.			ORO						1.1				State	
Email: De	evon-team@e	techenv.	com			WO: 21141253			1	RO/	17	0		0.0		MN		¥	NM CO	UT AZ	TX
Collected	l by: Edyte Ko	nan				Incident ID: nAPP2307930	900		£	a/o	/ 8021	826	601	e 30				1.2			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8	VOC by 8260	Metals 6010	Chloride 300.0	_	BGDOC		GDOC		Remarks	
9:00	5/22/2023	S	1			BH01		1	0.5'							x					
9:20	5/22/2023	S	1			BH01		2	4'							х					
	ler), attest to the		uthenticity	of this sample. I	am awar	e that tampering with or intentionally	mislabelling th	e sample loc	ation,			_	Sample	es requ	iring thermal p	oreserva	ation m	ust be re	ceived on ice the day	they are sampl	ed or received
the second se	of collection is cor												packed	l in ice	at an avg temp	above	0 but l	ess than (	5 °C on subsequent d	ays.	
Edyt	d by: (Signature 2 Kongn d by: (Signature		Date のち Date	122123	ime 10 9 З ime	Received by: (Signature)	ugls	Date 5-24-	2)	Time	35	)	Reco	eiveo	d on ice:		ab L	lse On I	ly		
Mic	ulle C	ens	5	24-23	1813		10	D.U	23	14	\$30	r	<u>T1</u>	_		<u>T2</u>			<u>T3</u>		
Mulli (115 524-2) 18/5 How Million Relinquished by: (Signature) Data Time Received by: (Signature) Holew Million 5:24:23 2400 Cartle Man					an	Date Shot	123	8	:20	0			np°C_(	4			-11,				
	ix: S - Soil, Sd - Sol				-										, ag - amb						10.4
						ther arrangements are made. Ha									t the client	exper	nse. 1	he rep	ort for the analy	sis of the at	ove
samples is a	ipplicable only to	o those sam	ples receiv	ed by the labo	pratory v	vith this COC. The liability of the la	aboratory is li	mited to th	e amo	ount p	aid for	r on ti	ne rep	ort.							
							Page 12 c	of 13			(	E	3		er	1	V	i	ot	e	ch

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

hone: (539) 573-4018 mail: devon-team@ensolum.com <u>Chain of Custody (COC)</u> . Does the sample ID match the COC? . Does the number of samples per sampling site to	Date Logged In: Due Date:	05/25/23 06/01/23	08:33 17:00 (4 day TAT)	Logged In By:	Caitlin Mars
mail: devon-team@ensolum.com <u>Chain of Custody (COC)</u> . Does the sample ID match the COC?					
. Does the sample ID match the COC?					
1					
Does the number of samples per sampling site lo		Yes			
. Does the number of samples per sampling site R	ocation match the COC	Yes			
. Were samples dropped off by client or carrier?		Yes	Carrier: Courier		
. Was the COC complete, i.e., signatures, dates/tin	nes, requested analyses?	Yes			
. Were all samples received within holding time? Note: Analysis, such as pH which should be i.e, 15 minute hold time, are not included in		Yes		<u>Commen</u>	ts/Resolution
ample Turn Around Time (TAT)					
. Did the COC indicate standard TAT, or Expedite	ed TAT?	Yes			
ample Cooler					
. Was a sample cooler received?		Yes			
. If yes, was cooler received in good condition?		Yes			
. Was the sample(s) received intact, i.e., not broke	en?	Yes			
0. Were custody/security seals present?		No			
1. If yes, were custody/security seals intact?		NA			
2. Was the sample received on ice? If yes, the recorded Note: Thermal preservation is not required, i	1 , , ,	Yes			
minutes of sampling 3. If no visible ice, record the temperature. Act	ual sample temperature: <u>4°</u>	<u>C</u>			
ample Container					
4. Are aqueous VOC samples present?		No			
5. Are VOC samples collected in VOA Vials?		NA			
6. Is the head space less than 6-8 mm (pea sized o	or less)?	NA			
7. Was a trip blank (TB) included for VOC analys	ses?	NA			
8. Are non-VOC samples collected in the correct	containers?	Yes			
9. Is the appropriate volume/weight or number of sar	nple containers collected?	Yes			
ield Label					
0. Were field sample labels filled out with the min	nimum information:				
Sample ID?		Yes			
Date/Time Collected? Collectors name?		Yes Yes			
ample Preservation		105			
1. Does the COC or field labels indicate the samp	les were preserved?	No			
2. Are sample(s) correctly preserved?	•	NA			
4. Is lab filteration required and/or requested for o	lissolved metals?	No			
Aultiphase Sample Matrix					
6. Does the sample have more than one phase, i.e	., multiphase?	No			
7. If yes, does the COC specify which phase(s) is	-	NA			
ubcontract Laboratory					
8. Are samples required to get sent to a subcontra	ct laboratory?	No			
9. Was a subcontract laboratory specified by the c	lient and if so who?	NA	Subcontract Lab: NA		
Client Instruction					

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C
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Date

envirotech Inc.

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

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# APPENDIX G

# **NMOCD** Notifications

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



#### **Anna Byers**

From: Sent: To: Subject: Joseph Hernandez Friday, June 9, 2023 1:02 PM Anna Byers FW: WPX Site Sampling Update (5/22 - 5/26/2023)

From: Erick Herrera <erick@etechenv.com>
Sent: Wednesday, May 17, 2023 5:14 PM
To: OCD.Enviro@emnrd.nm.gov; blm\_nm\_cfo\_spill@blm.gov
Cc: jim.raley@dvn.com; Devon-Team <Devon-Team@etechenv.com>
Subject: WPX Site Sampling Update (5/22 - 5/26/2023)

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following site between May 22 – May 26, 2023:

<u>Site Name: RDX 16-#008</u> API: 30-015-39751 Incident Number: nAPP2307930900

Thank you,

**Erick Herrera** Staff Geologist

Environmental & Safety Solutions, Inc.

Work: (432) 305-6416 Cell: (281) 777-4152 Received by OCD: 6/13/2023 1:41:54 PM State of New Mexico

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	nAPP2307930900
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. 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. Printed Name: Jim Raley Title: Environmental Professional fin Roly \_\_\_\_\_ Date: \_\_\_\_\_6/13/2023 Signature: email: Jim.Raley@dvn.com Telephone: 575-689-7597 **OCD Only** Received by: Jocelyn Harimon 06/13/2023 Date: Approved X Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Robert Hamlet Date: <u>11/14/2023</u>

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

Page 137 of 137 CONDITIONS

Action 227084

CONDITIONS

Operator: 0	OGRID:		
WPX Energy Permian, LLC	246289		
Devon Energy - Regulatory	Action Number:		
Oklahoma City, OK 73102	227084		
	Action Type:		
	[C-141] Release Corrective Action (C-141)		
CONDITIONS			

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. Due to the sensitive nature of the release location and the site being located within a 100-year floodplain, the site will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Sidewall/edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. Please collect confirmation samples, representing no more than 200 ft2. The work will need to occur in 90 days after the report has been reviewed.	11/14/2023