## NM OIL CONSERVATION

ARTESIA DISTRICT

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

JAN 3 0 2018

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Gapy to appropriate District Office in accordance with 19.15.29 NMAC.

	Release Notification and Corrective Action										
MARIO	000 1000 AE1 2117						D' 1D (				
Name of Co					OPERAT Contact: Jar		<u></u> ∐ Ir	itial Report		Final Report	
Address: 53			1011 / W1	A Lineigy /	<i>vojo</i> y		No: 575-689-75	97			
Facility Nan							e: Production				
				NG16	<u> </u>			LAD	LNI. 20 01	5 40100	
Surface Ow	ner: Feder	aı		Mineral C	Jwner:	rederai		AP	I No. 30-01	3-40180	<u> </u>
	,			LOCA'	TION	OF REL	EASE				
Unit Letter	Section	Township	Range	Feet from the	Nortl	n/South Line	Feet from the	East/West L	ine	Cor	unty
0	09	26S	30E	990		FSL	2310	FEL		Ec	idy
		32.0	5261	23 Latitu	do I d	ngitude N	AD83 /03.	0051101			
			J					0801629	€		
				NATI	URE	OF RELE					
Type of Relea							Release: 25 bbls		me Recovere		
Source of Re	lease: Flow	line				Unknown	Iour of Occurrence		and Hour of /2018 at 5:00		ry
Was Immedia	ate Notice (	Given?				If YES, To	Whom? Mike B	ratcher			
		$\boxtimes$	Yes	No Not R	equired						ma i'l
By Whom? J						Date and I	Iour: 1/17/2018 8	:48 AM	7:14 <i>a</i> a	K li	
Was a Water	course Read		Yes ⊠	1 No		If YES, Vo	olume Impacting	the Watercour	se.		
TC TV											
If a Watercou	irse was im	pacted, Descr	ibe Fully.	N/A							
Describe Cause of Problem and Remedial Action Taken.* Buried flowline faile							5 bbls of	f fluids was			
released to the pad surface. Vac truck was immediately dispatched to remove standing liquids, approx. 20 bbls were recovered.											
	Describe Area Affected and Cleanup Action Taken.* Impacts limited to working pad surface. Impacted soils to be removed and disposed at an approved landfill. Soils samples to be collected post-cleanup to ensure no additional remediation necessary. Line to be replaced.										
landini. Sons	samples to	be conected j	post-clean	up to ensure no a	aamon	n remediation	necessary. Line t	o de replaceu.			
I haraby carti	fu that the	information a	ivan above	is true and comm	loto to	the heat of my	knowledge and u	and arctand that	nursuant to	NIMOCE	) rules and
							nd perform correct				
public health	or the envi	ronment. The	acceptano	ce of a C-141 repo	ort by tl	ne NMOCD m	arked as "Final R	Report" does no	ot relieve the	operator	of liability
							on that pose a three the operator of				
		ws and/or regu		nance of a C-141	тероп	does not renev	e the operator of	responsibility	ioi compilai	ce will a	any other
							OIL CON	SERVATI	ON DIVI	SION	
					ŀ						
Min	Kel-					Annroved by	Environmental S	inecialist:			
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Signature:						/	/ _/				
					Signed I	By 71/4	Branco	1650	_		
Printed Name	e: Jim Rale	У		<del> </del>							
Title: Environ	nmental Sp	ecialist				Approval Da	te: 21118	Expir	ation Date:	All	
								2			
E-mail Addre	ess: james.r	aley@wpxene	ergy.com			Conditions o	f Approval:	11.61.6	Atta	ched 🔲	h
Date: 1/30/2018 Phone: 575-689-7597					500 W	Haune	7	٦K	44541		

<u>District I</u> 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

Incident ID	nAB1803254347
District RP	2RP-4597
Facility ID	
Application ID	

## **Release Notification**

			Resp	onsible Part	y		
Responsible Party: WPX Energy Permian, LLC				OGRID: 2	OGRID: 246289		
Contact Name: Jim Raley				Contact T	Contact Telephone: 575-689-7597		
Contact emai	l: Jim.Raley	@dvn.com		Incident #	t (assigned by OCD): nAB1803254347		
Contact mails	ing address:	5315 Buena Vista	a Drive, Carlsbad N	NM			
			Location	of Release S	ource		
Latitude		32.0529412		Longitude	-103.8850618		
			(NAD 83 in dec	rimal degrees to 5 deci	mal places)		
Site Name: Rl	DX 9 #004			Site Type:	Oil Production Facility		
Date Release	Discovered:	: 01/16/2018		API# (if ap)	plicable): 30-015-40180		
Unit Letter	Section	Township	Range	Cour	<u> </u>		
О	09	26S	30E	Edo	19		
	Materia	l(s) Released (Select a	Nature and	Volume of	c justification for the volumes provided below)		
Oil Emuls		Volume Release			Volume Recovered (bbls): 20		
Produced	Water	Volume Release	ed (bbls):		Volume Recovered (bbls):		
		Is the concentrate produced water	tion of dissolved cl >10,000 mg/l?	hloride in the	☐ Yes ☐ No		
Condensa	te	Volume Release	ed (bbls)		Volume Recovered (bbls)		
Natural G	as	Volume Release	ed (Mcf)		Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide uni			Released (provide	units)	its) Volume/Weight Recovered (provide units)		
approximate	e 3:1 mixtur ed approxi	re of crude oil to mately 20 bbls o	produced water) f fluids.	on to the pad su	proximately 25 barrels (bbl) of oil emulsion (an inface. A vacuum truck was dispatched to the Site		
	bbl estin	$nate = \frac{saturate}{4.21}$	d soil volume (ft ft³ bbl equivalent)	* estimated p	orosity (%) + recovered fluids (bbl)		

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Page	nt I	6
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Incident ID	nAB1803254347
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Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release? Volume of 25bbls.
19.15.29.7(A) NMAC?	
⊠ Yes □ No	
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? ed via email on 1/17/2018 to Mike Bratcher.
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
	s been secured to protect human health and the environment.
	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have not been undertaken, explain why:
Per 19.15.29.8 B. (4) NM	AC 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 at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	rmation 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
failed to adequately investig	nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atteand remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
-	ey Title: Environmental Professional
	Date: 8/30/2023
email: <u>Jim.Raley@dvn.</u>	<u>com</u> Telephone: <u>575-689-7597</u>
OCD Only	
Received by:	Date:

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Incident ID	nAB1803254347
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## **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>51-100</u> (ft bgs)			
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.				
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> </ul>				
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release				

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.

Boring or excavation logs

Topographic/Aerial maps

Photographs including date and GIS information

☐ Laboratory data including chain of custody

Received by OCD: 8/30/2023 9:59:38 AM State of New Mexico
Page 4 Oil Conservation Division

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Incident ID	nAB1803254347
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Facility ID	
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I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a the addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name: Jim Raley	Title: Environmental Professional
Signature: Jan Roll	Date:
email: Jim.Raley@dvn.com	Telephone: <u>575-689-7597</u>
OCD Only	
Received by: Shelly Wells	Date: 8/30/2023

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## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following it	tems must be included in the closure report.										
□ A scaled site and sampling diagram as described in 19.15.29.11 NMAC											
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)											
□ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)											
Description of remediation activities											
may endanger public health or the environment. The acceptance of	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.  Title: Environmental Professional										
OCD Only											
Received by: Shelly Wells	Date: 8/30/2023										
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.										
Closure Approved by: Ashley Maxwell	Date: <u>09/01/2023</u>										
Closure Approved by: Ashley Maxwell Printed Name: Ashley Maxwell	Title: Environmental Specialist										



# **CLOSURE REQUEST REPORT**

RDX 9 #004

Eddy County, New Mexico

Incident Number nAB1803254347

Prepared For:
WPX Energy Permian, LLC
5315 Buena Vista Dr.
Carlsbad, NM 88220

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 Closure Request Report (CRR) detailing delineation and excavation activities and subsequent soil sampling events performed for an inadvertent release of oil emulsion at the RDX 9 #004 ((Site) (**Figure 1** in **Appendix A**)). Based on completed remedial actions and laboratory analytical results from recent soil sampling events, WPX is requesting No Further Action (NFA) at the Site.

### SITE LOCATION AND RELEASE BACKGROUND

On January 16, 2018, it was discovered that a buried flowline failed and resulted in the release of approximately 25 barrels (bbls) of oil emulsion (an approximate 3:1 mixture of crude oil to produced water) onto the well pad surface. A vacuum truck was dispatched to the Site and recovered approximately 20 bbls of fluids. 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) on January 30, 2018, and was subsequently assigned Incident Number nAB1803254347. WPX mapped the observed release footprint, hereafter referred to as the Area of Concern (AOC), utilizing a handheld Trimble® Global Positioning System (GPS) unit immediately after discovery and is presented on **Figure 2** in **Appendix A**. Between February 5 and February 8, 2018, WPX excavated observed soil impacts during the repair of the buried flowline and installed an above ground flowline to resume operations. Following flowline replacement operations, the excavation was backfilled and resurfaced to match the original well pad grade.

The production well (API 30-015-40180) for this Site is located in Unit O, Section 09, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.0526123°, -103.8851624°) as provided on the initial Form C-141 and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

The flowline, where the release occurred, is located north of the production well, along the northern edge of the well pad (32.0529412°, -103.8850618°). The updated 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 closest well with available depth to groundwater data, depth to groundwater at the Site is estimated to be between 51 and 100 feet below ground surface (bgs). A soil boring permitted under the New Mexico Office of the State Engineer (NMOSE) as C-04655 was drilled by Atkins Engineering

Closure Request Report Incident Number nAB1803254347 RDX 9 #004 Associates, Inc. approximately 0.33 miles southeast of the Site. The soil boring location may be referenced on **Figure 1** in **Appendix A**. Using a truck mounted drill rig equipped with a hollow stem auger, the soil boring was advanced to a total depth of 55 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. Referenced well logs are provided in **Appendix B**.

Based on the desktop review, the current BLM Carlsbad Field Office (CFO) karst cave potential map, this Site is located within a medium potential karst area. A significant watercourse, as defined by a dashed blue line on a United States Geological Survey (USGS) 7.5-minute quadrangle map, is within 300 feet north of the Site. All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used to determine the site characterization are included in **Figure 1** in **Appendix A**.

Based on the results from the desktop review (specifically, the proximity to a significant watercourse) 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)
TPH (Total Petroleum Hydrocarbon)	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 AND EXCAVATION SOIL SAMPLING ACTIVITIES**

Between June 21, 2023, and August 8, 2023, Etech conducted delineation activities to assess the presence or absence of residual soil impacts and confirm horizontal delineation associated with the AOC. Nine delineation potholes (PH01 through PH09) were advanced via mechanical equipment within and around the AOC. Delineation activities were driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. At minimum, two samples were collected from each delineation sampling location, representing the highest observed field screening concentrations and the greatest depth. Field screening results and soil descriptions are included on soil sampling logs shown in **Appendix C**. The delineation soil sample locations are shown in **Figure 2** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix D**.

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

Excavation activities were performed concurrently with delineation activities to address residual impacts according to delineation field screening results. Field screening results indicated that elevated chloride concentrations were present up to 1-foot bgs at pothole locations PH03 and PH05. Excavation activities were advanced at PH03 and PH05 locations via mechanical equipment and further directed by field screening for VOCs and chloride, as previously described.

Following the removal of soil, Etech collected 5-point composite soil samples at a sampling frequency of 200 square feet from the excavations. Due to the shallow excavation depth, soil from the sidewalls from each excavation were included in each respective composite floor soil sample. The 5-point composite soil

Closure Request Report Incident Number nAB1803254347 RDX 9 #004 samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The samples were then handled and analyzed for COCs as previously described.

On July 24, 2023, additional excavation activities were performed to address residual impacts present at delineation sampling location PH02 according to laboratory analytical results. Excavation activities were advanced via mechanical equipment and directed by field screening for VOCs and chloride, as previously described. Following the removal of soil, a confirmation excavation soil sample was collected, handled, and analyzed for COCs as previously described. Confirmation excavation soil sample locations are shown in **Figure 3** in **Appendix A**.

Impacted soil removed from the Site was transported to a licensed and approved New Mexico landfill under WPX approved manifests. Upon receipt of the final confirmation excavation soil samples results, the excavations were backfilled with clean, locally sourced soil and the Site was restored to "as close to its original state" as possible. Photographic documentation of excavation activities is included in **Appendix C**.

#### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for PH02 indicated TPH exceedances and PH03 and PH05 indicated chloride exceedances above the Site Closure Criteria at 0.5-foot bgs. Laboratory analytical results for all other delineation sample collected within the AOC (PH01 and PH04) were below the Site Closure Criteria. Concentrations of COCs for potholes surrounding the AOC (PH06 through PH09) provide horizontal delineation of the AOC.

Laboratory analytical results for all final confirmation excavation soil samples indicated all analyzed COCs were below the Site Closure Criteria. Laboratory analytical results are summarized in the **Tables** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**.

#### **CLOSURE REQUEST**

Based on laboratory analytical results for delineation and final confirmation excavation soil samples, WPX believes that residual soil impacts associated with the inadvertent release have been delineated, excavated, and removed from the Site. WPX believes the completed remedial actions have mitigated impacts at the Site and the requirements set forth in NMAC 19.15.29.13 guidelines in order to be protective of human health, the environment and ground water. As such, NFA appears warranted at this time and this CRR associated with Incident Number nAB1803254347 should be respectfully considered for Closure by the NMOCD.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or <a href="mailto:joseph@etechenv.com">joseph@etechenv.com</a> or Gilbert Moreno at (832) 541-7719 or <a href="mailto:gilbert@etechenv.com">gilbert@etechenv.com</a>. **Appendix G** provides correspondence email notification receipts associated with the subject release.

Sincerely.

Etech Environmental and Safety Solutions, Inc.

Gilbert Moreno Project Geologist

Closure Request Report Incident Number nAB1803254347 RDX 9 #004 Joseph S. Hernandez Senior Managing Geologist cc: Jim Raley, WPX

New Mexico Oil Conservation Division

Bureau of Land Management

## Appendices:

Appendix A: Figure 1: Site Map

Figure 2: Delineation Soil Sample Locations
Figure 3: Excavation Soil Sample Locations

**Appendix B**: Referenced Well Records

**Appendix C**: Soil Sampling Logs **Appendix D**: Photographic Log

**Appendix E**: Tables

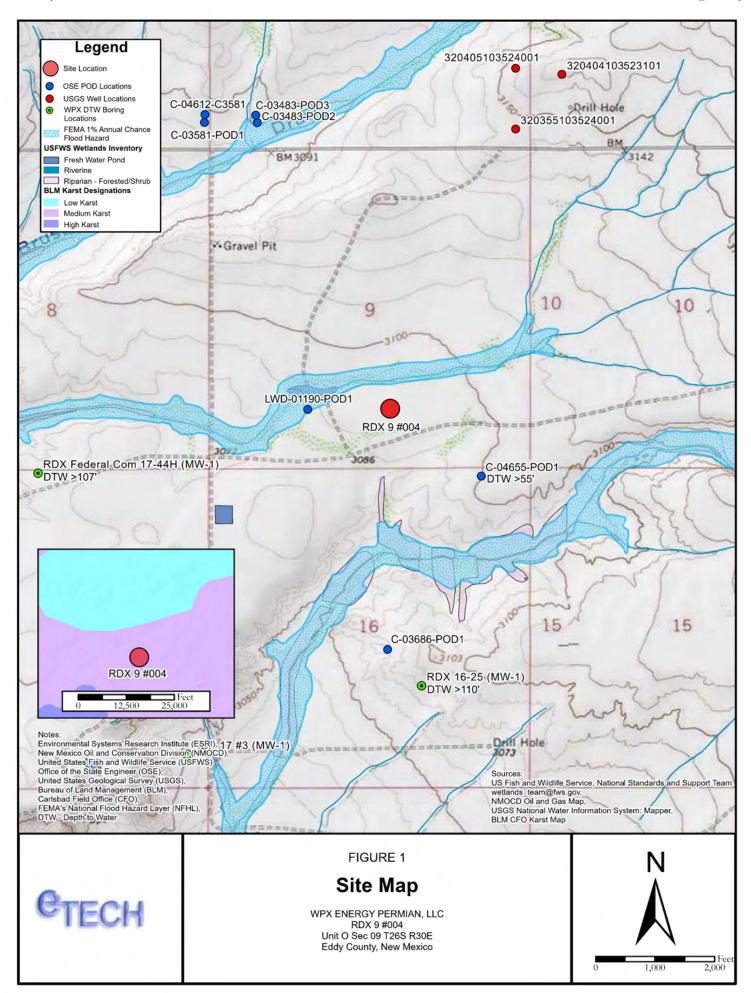
**Appendix F**: Laboratory Analytical Reports & Chain-of-Custody Documentation

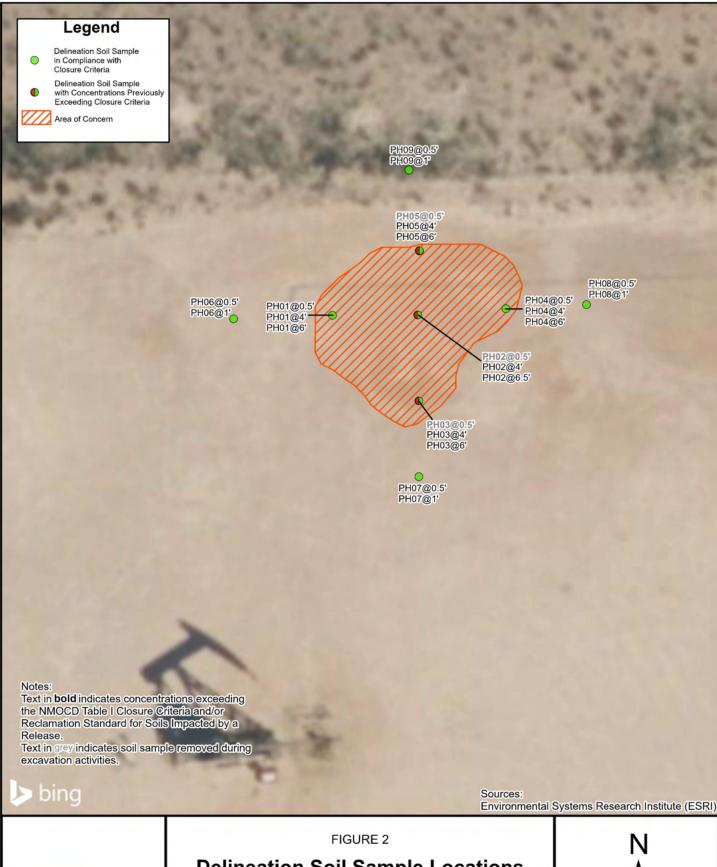
Appendix G: NMOCD Notifications

# **APPENDIX A**

Figures



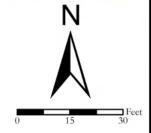






## **Delineation Soil Sample Locations**

WPX ENERGY PERMIAN, LLC RDX 9 #004 Unit O Sec 09 T26S R30E Eddy County, New Mexico

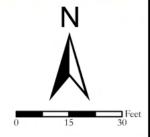






## **Excavation Soil Sample Locations**

WPX ENERGY PERMIAN, LLC RDX 9 #004 Unit O Sec 09 T26S R30E Eddy County, New Mexico



## **APPENDIX B**

Referenced Well Records





## WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE DII AUG 8 2022 M10:17

NO	OSE POD NO POD 1 (TV		0.)		WELL TAG ID NO. N/A			OSE FILE N C-4655	VO(S).							
OCATI	WELL OWNER NAME(S) Devon Energy									PHONE (OPTIONAL) 575-748-1838						
WELL L	WELL OWN 6488 7 Ri		IG ADDRESS					STAT NM	E 882	210	ZIP					
GENERAL AND WELL LOCATION	WELL LOCATIO	L	E ATITUDE	32 103					_							
ER	(FROM GI	PS)	ONGITUDE	* DATUM REQUIRED: WGS 84												
1. GEN			TZ6S R30E, NMP		RESS AND COMMON	N LANDM	IARKS – PLS	S (SECTION,	TOWN	NSHJIP, RA	NGE) WH	ERE A	VAILABLE			
	LICENSE NO. NAME OF LICENSED DRILLER  1249  NAME OF WELL DRILLING COMPANY  Atkins Engineering Associates, Inc.													nc.		
	DRILLING STARTED 7/28/2022  DRILLING ENDED DEPTH OF COMPLETED WELL (FT) Temporary Well  DEPTH OF COMPLETED WELL (FT)  Temporary Well  DEPTH WATER FIRST ENCOUNTERED (FT)  N/A															
z	COMPLETED WELL IS: ARTESIAN ORY HOLE SHALLOW (UNCONFINED)  STATIC WATER LEVEL IN COMPLETED WELL N/A 7/28/22, 8/2/2															
10	DRILLING F	LUID:	AIR	☐ MUD	ADDITIV	/ES – SPE	CIFY:									
ORMA'	DRILLING N	ÆTHOD:		MER CAB	LE TOOL 🗸 OTH	ER – SPE	CIFY: H	Iollow Ster	m Au	iger	CHECK INSTAL	HERE LED	IF PITLESS	ADAP	TER IS	
NF	DEPTH	(feet bgl)	BORE HOLE	CASING	CASING MATERIAL AND/OR			ASING		CASING C.			CASING WALL		SLOT	
& CASING INFORMATION	FROM	то	DIAM (inches)	(include each casing string, and			NECTION INSIDE DIAN (inches)				M. THICKNESS (inches)		SS	SIZE (inches)		
& C	0	55	±6.5		Boring-HSA											
NG																
2. DRILLING																
DRI									$\perp$							
7									$\perp$							
									4							
									+			_				
				-					+			_				
				+					+							
			_	+					+							
ي ا		(feet bgl)	BORE HOLE DIAM. (inches)		IST ANNULAR SI VEL PACK SIZE						OUNT			THOI ACEM		
ANNULAR MATERIAL	FROM	TO	Dirivi (menes)	- OK	VEETACK SIZE	-ICAINO	C D I INTE	ERVAL		(cubic feet)		-	PLACEMENT			
\TE				+					+			-				
W W				+					+							
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3. AN				-					+							
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	005													01.77	(2022)	
	OSE INTER				POD NO	) 1			R-20 N NC	WELL RI				1 01/28	5/2022)	
				7 7	TODING	· \					293	) C		AGF	1 OF 2	
Loc	ATION (	62.	30E.16.1	.6.6.				WELL TAC	ועוינ	NO.			^	. I.O.L	. 01 2	

	DEPTH (f		THICKNESS (feet)	COLOR AN	s	WAT	ING?	ESTIMATED YIELD FOR WATER-				
	FROM	ТО	(lect)	(attach sup	plemental sheets	to fully de	scribe a	ll units)		(YES /	NO)	BEARING ZONES (gpm)
	0	4	4	Sano	l, Fine-grained, po	orly grade	d, Brow	n		Y	✓ N	
	4	48	44	Sand, Fine-gra	ined, poorly grade	d, with ca	liche Tar	and white		Y	✓ N	
	48	48 55 7 Sand, Fine-grained, poorly graded, Tan Brown										
										Y	N	
										Y	N	
T										Y	N	
4. HYDROGEOLOGIC LOG OF WELL										Y	N	
OF										Y	N	
507										Y	N	
JIC.										Y	N	
070										Y	N	
GEO										Y	N	
)RO										Y	N	
H										Y	N	
4.										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
	METHOD U	ISED TO ES	STIMATE YIELD	OF WATER-BEARING	G STRATA:					AL ESTIM		
	PUM	P A	IR LIFT	BAILER OT	HER - SPECIFY				WEL	L YIELD	(gpm):	0.00
NC	WELL TES			ACH A COPY OF DAT ME, AND A TABLE SH								
VISION	MISCELLA	NEOUS IN	FORMATION: T		l namariad and a	ail harin	- hoolef	llad veina de	ill out	ings from	a total d	anth to tan fact
5. TEST; RIG SUPERV			10	emporary well materia clow ground surface(b	gs), then hydrate	on boring	ite chip	s ten feet bg	to su	ings from	n total di	epth to ten feet
SUI									real and the first	rr au a	n noar	LUCARO
, RIC								U	ot U	II MUG	8 ZUZZ	AMI0:17
EST	PRINT NAM	ME(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PRO	VIDED ONSITE	SUPERVI	SION O	F WELL CON	STRUC	CTION O	THER TH	IAN LICENSEE:
5. T	Shane Eldri	` '										
	Share Elan	age, came										
URE	CORRECT	RECORD O	F THE ABOVE I	FIES THAT, TO THE B DESCRIBED HOLE AN 30 DAYS AFTER COM	D THAT HE OR	SHE WIL	L FILE	GE AND BEL THIS WELL I	IEF, TI RECOR	HE FORE D WITH	GOING I	IS A TRUE AND ATE ENGINEER
6. SIGNATURE	Jack Atkins Jackie D. Atkins										2022	
.9	-	SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME		_				DATE	
	R OSE INTER				POD NO.	1		TRN NO.				rsion 01/28/2022)
_		4655	05 II I	2 2	POD NO.	(			10	9337		PAGE 2 OF 2
LO	CATION	62.5	OE. 16.1	16.6.			WELL	TAG ID NO.				INGE 2 OF 2



2904 W 2nd St. Roswell, NM 88201 voice: 575.624.2420 fax: 575.624.2421 www.atkinseng.com

USE DIFAUG 8 2022 MILO:17

August 4, 2022

DII-NMOSE 1900 W 2<sup>nd</sup> Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4655 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4655 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

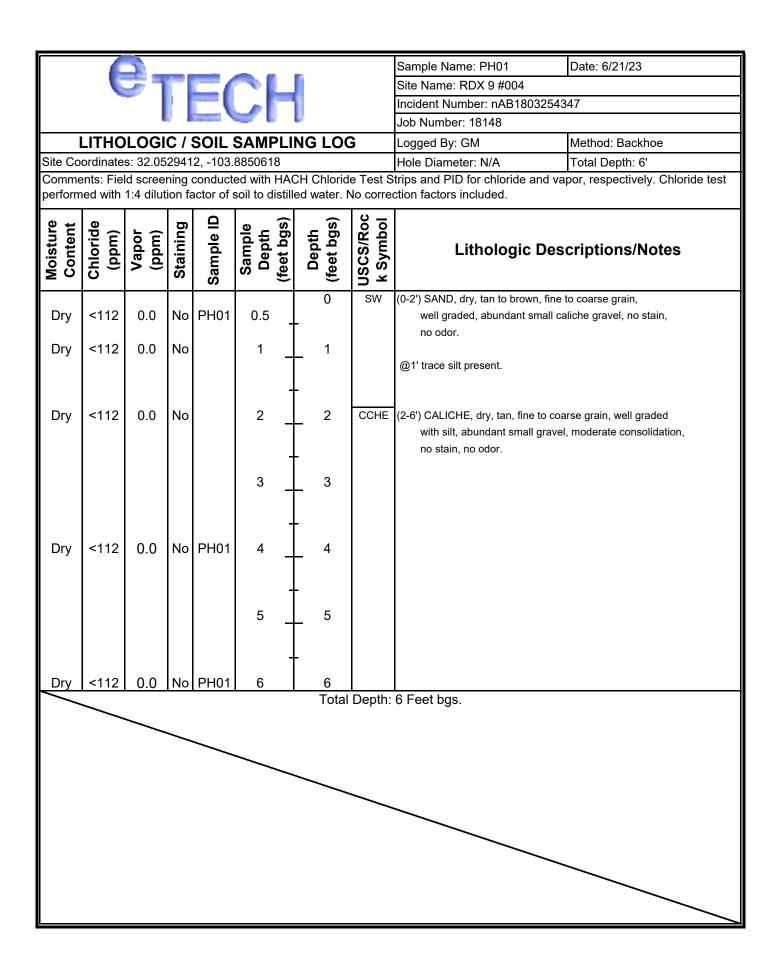
Gran Whodom

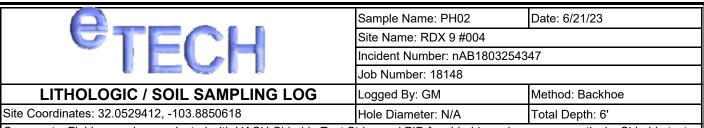
Released to Imaging: 9/1/2023 10:04:42 AM

# **APPENDIX C**

Soil Sampling Logs

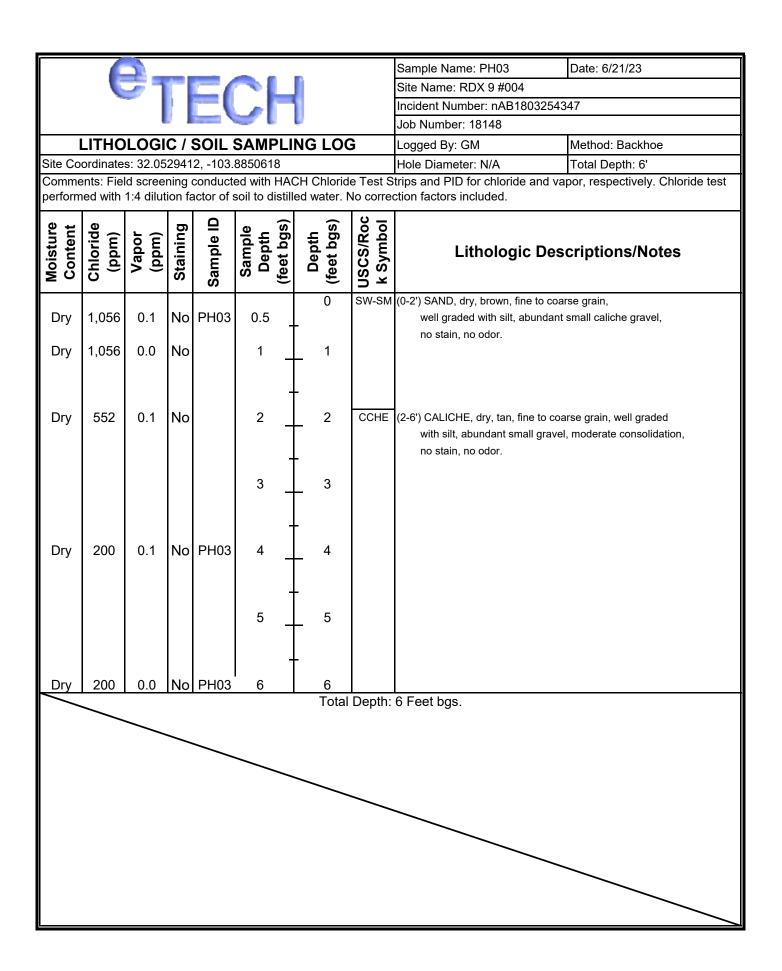


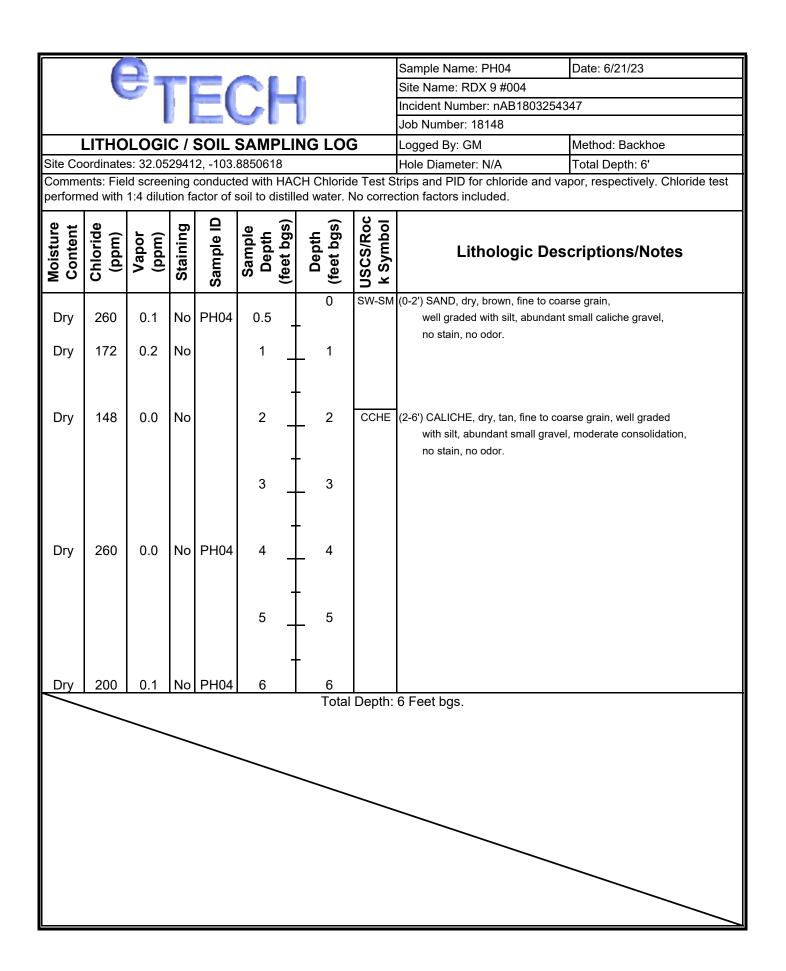


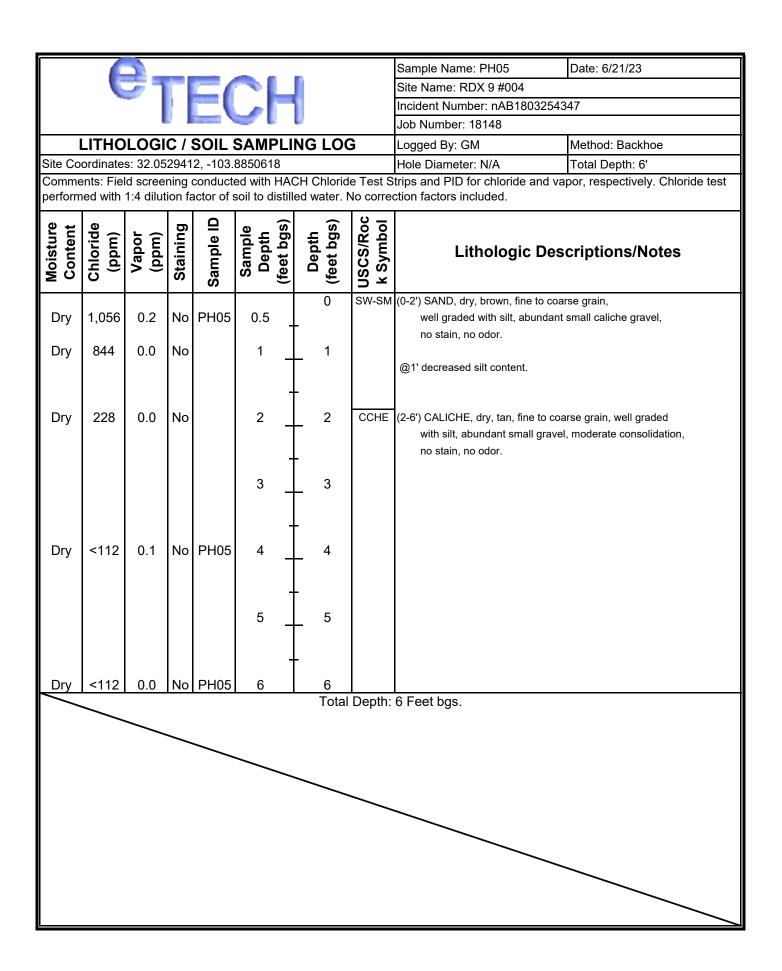


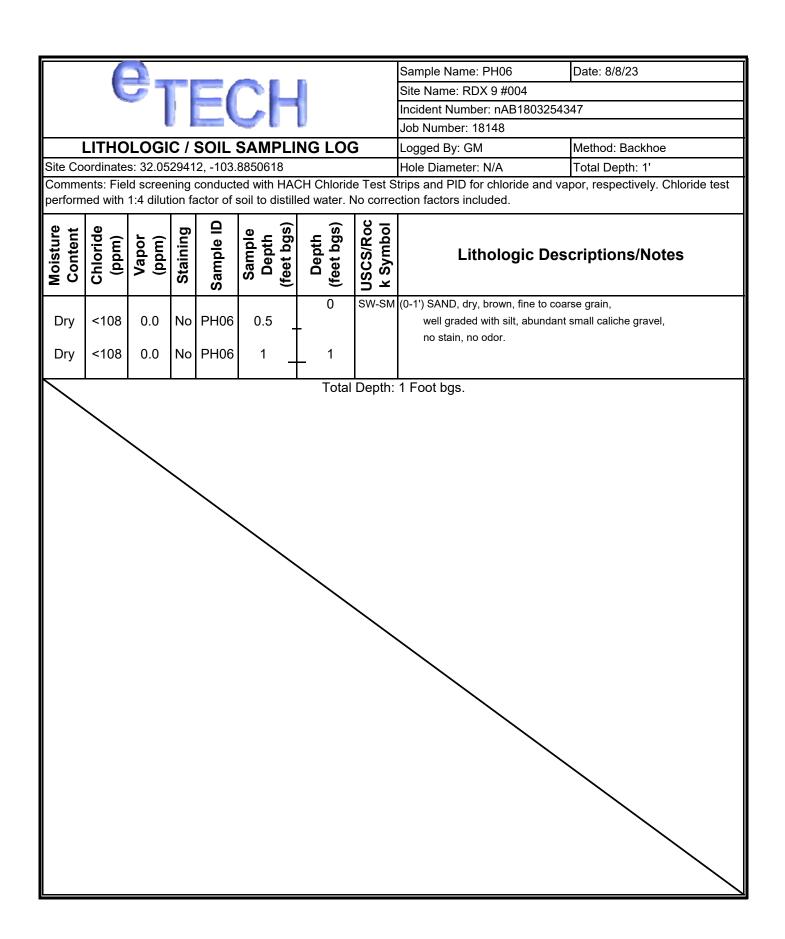
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

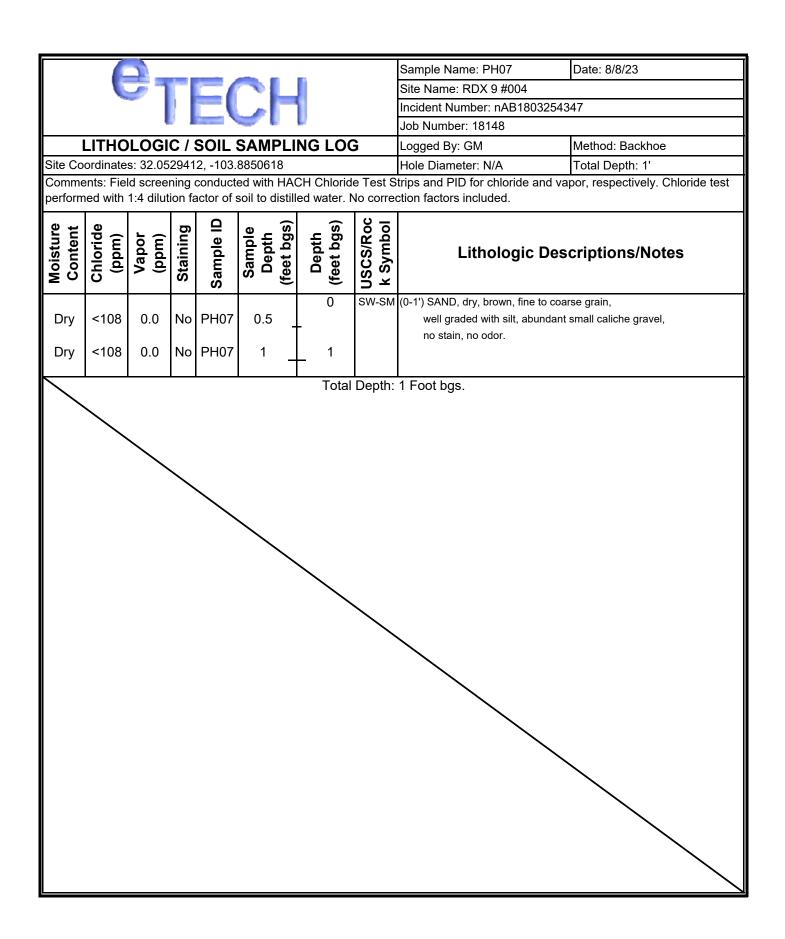
·									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth	(feet bgs)	Depth (feet bgs)	USCS/Roc k Symbol	Lithologic Descriptions/Notes
							0	SW	(0-2') SAND, dry, brown, fine to coarse grain,
Dry	172	0.0	No	PH02	0.5				well graded, abundant small caliche gravel, no stain,
									no odor.
Dry	260	0.0	No		1	_	_ 1		
									@1' trace silt present.
						-	_		
Dry	124	0.0	No		2		2	CCHE	(2-6.5') CALICHE, dry, tan, fine to coarse grain, well graded
Dry	127	0.0	110		_	_		OONE	with silt, abundant small gravel, moderate consolidation,
									no stain, no odor.
						-	_		
					3		3		
							_		
_	4.40		١	D. 100					
Dry	<112	0.0	No	PH02	4	_	_ 4		
						-	_		
					5		5		
						_	- "		
					6		_ 6		
Dry	148	0.0	No	PH02	6.5		6.5		
Total Depth: 6.5 Feet bgs.									

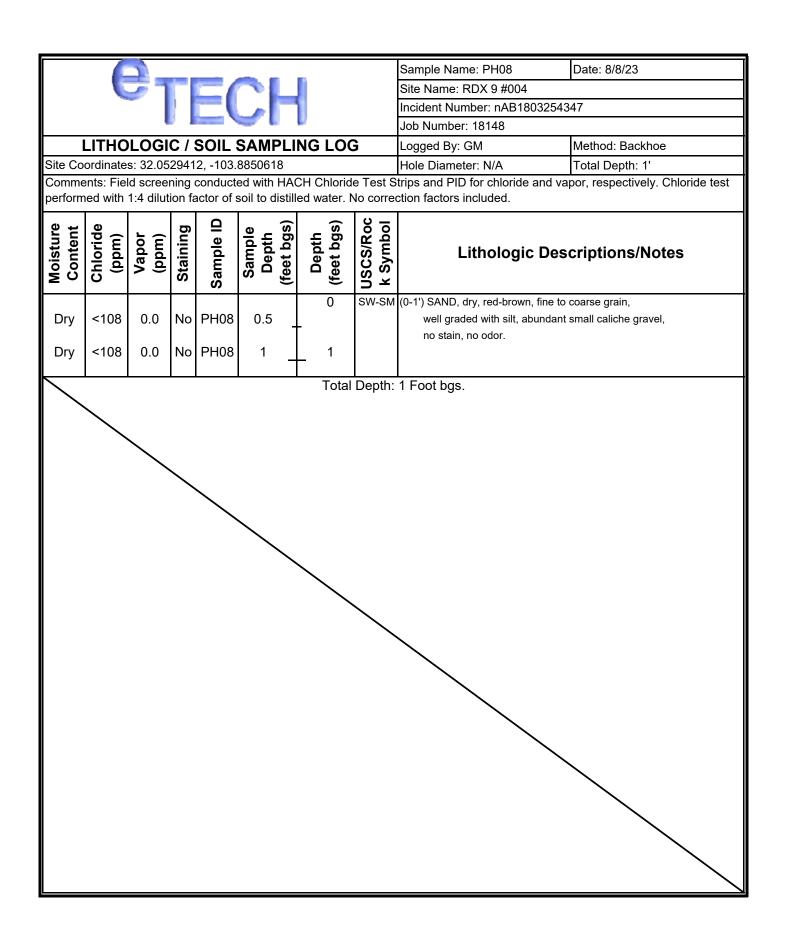


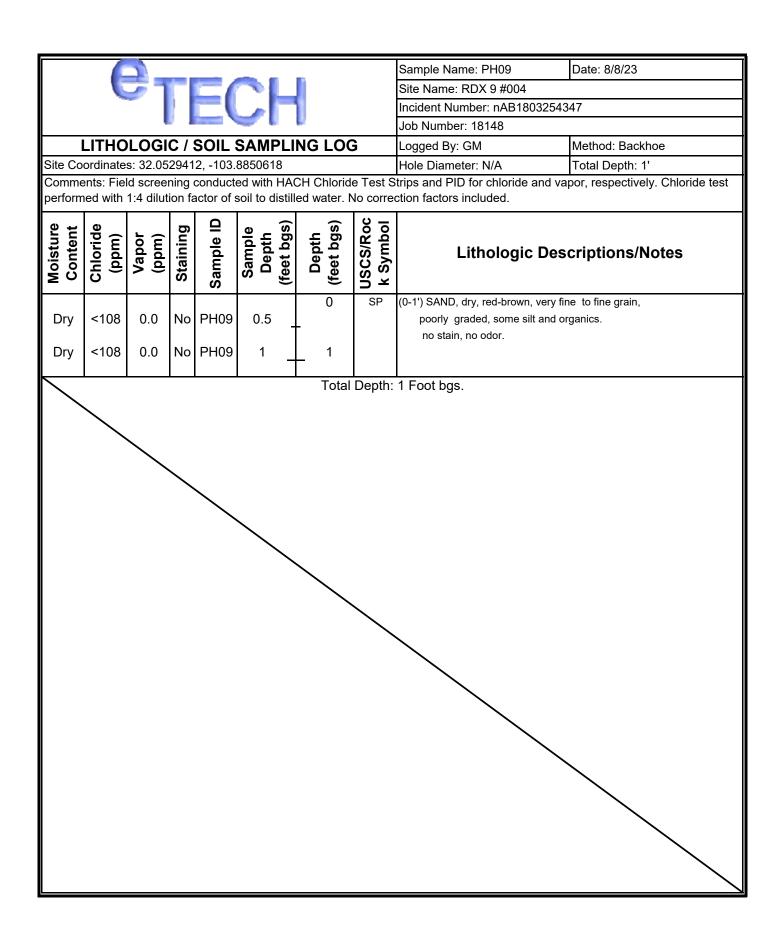












# APPENDIX D

Photographic Log





### **PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC RDX 9 #004

Incident Number: nAB1803254347



Photograph 1 Date: 06/21/2023

Description: Northeastern view of delineation activities, near PH01.



Photograph 2 Date: 06/21/2023

Description: Southeastern view of delinetion activivies, near PH02.



### **PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC RDX 9 #004

Incident Number: nAB1803254347



Photograph 3 Date: 06/21/2023

Description: Northeastern view of excavation extent, near PH03.



Photograph 4 Date: 07/24/2023

Description: Southeastern view during excavation activities, near PH02.



### **PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC RDX 9 #004

Incident Number: nAB1803254347



Photograph 5 Date: 07/24/2023

Description: Southeastern view of backfill following remediation activities near PH05



Photograph 6 Date: 07/24/2023

Description: Northeastern view of backfill following remediation activities near PH03.

# **APPENDIX E**

**Tables** 





# Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC RDX 9 #004 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 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
			Del	ineation Soil Samples	Analytical Results - na	AB1803254347			
PH01	06/21/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
PH01	06/21/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
PH01	06/21/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
PH02	06/21/2023	0.5	<0.0250	< 0.0500	<20.0	60.6	64.9	125.5	301
PH02	06/21/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	81.4
PH02	06/21/2023	6.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	216
PH03	06/21/2023	0.5	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<50.0	1,120
PH03	06/21/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	367
PH03	06/21/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	353
PH04	06/21/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	356
PH04	06/21/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	420
PH04	06/21/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	317
PH05	06/21/2023	0.5	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<50.0	1,100
PH05	06/21/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
PH05	06/21/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
PH06	08/08/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
PH06	08/08/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
PH07	08/08/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
PH07	08/08/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
PH08	08/08/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
PH08	08/08/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
PH09	08/08/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
PH09	08/08/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
			Exc	cavation Soil Samples	Analytical Results - n	AB1803254347			
FS01	06/21/2023	1.5	<0.0250	<0.0500	<20.0	30.0	<50.0	30.0	347
FS02	06/21/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	249
FS03	07/24/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	267

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

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

Shaded grey soil sample indicates soil was removed

# **APPENDIX F**

Laboratory Analytical Reports & Chain-of-Custody Documentation



Report to:
Gilbert Moreno



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 9 #004

Work Order: E306184

Job Number: 01058-0007

Received: 6/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/29/23

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: 6/29/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 9 #004

Workorder: E306184

Date Received: 6/23/2023 7:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/23/2023 7:30:00AM, under the Project Name: RDX 9 #004.

The analytical test results summarized in this report with the Project Name: RDX 9 #004 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

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

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

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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## Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Donoutoda
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	06/29/23 13:31

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 0.5'	E306184-01A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.
PH01 4'	E306184-02A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.
PH01 6'	E306184-03A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.
PH02 0.5'	E306184-04A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.
PH02 4'	E306184-05A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.
PH02 6.5'	E306184-06A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.
PH03 0.5'	E306184-07A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.
PH03 4'	E306184-08A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.
PH03 6'	E306184-09A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.
PH04 0.5'	E306184-10A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.
PH04 4'	E306184-11A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.
PH04 6'	E306184-12A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.
PH05 0.5'	E306184-13A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.
PH05 4'	E306184-14A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.
PH05 6'	E306184-15A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 1:31:26PM

#### PH01 0.5' E306184-01

	E300104-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: SL		Batch: 2325080
ND	0.0250	1	06/23/23	06/23/23	
ND	0.0250	1	06/23/23	06/23/23	
ND	0.0250	1	06/23/23	06/23/23	
ND	0.0250	1	06/23/23	06/23/23	
ND	0.0500	1	06/23/23	06/23/23	
ND	0.0250	1	06/23/23	06/23/23	
	93.9 %	70-130	06/23/23	06/23/23	
mg/kg	mg/kg	Ana	lyst: SL		Batch: 2325080
ND	20.0	1	06/23/23	06/23/23	
	89.5 %	70-130	06/23/23	06/23/23	
mg/kg	mg/kg	Ana	lyst: JL		Batch: 2326020
ND	25.0	1	06/27/23	06/27/23	
ND	50.0	1	06/27/23	06/27/23	
	79.5 %	50-200	06/27/23	06/27/23	
mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2325082
ND	20.0	1	06/23/23	06/27/23	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result         Reporting Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           mg/kg         mg/kg           MB/kg         mg/kg           MB/kg         mg/kg           ND         20.0           89.5 %         mg/kg           MD         25.0           ND         50.0           79.5 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           mg/kg         mg/kg         Anal           ND         20.0         1           89.5 %         70-130         70-130           mg/kg         mg/kg         Anal           ND         25.0         1           ND         50.0         1           79.5 %         50-200           mg/kg         mg/kg         Anal	Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: SL           ND         0.0250         1         06/23/23           ND         0.0250         1         06/23/23           ND         0.0250         1         06/23/23           ND         0.0250         1         06/23/23           ND         0.0500         1         06/23/23           ND         0.0250         1         06/23/23           mg/kg         mg/kg         Analyst: SL           ND         20.0         1         06/23/23           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         06/27/23           ND         50.0         1         06/27/23           ND         50.0         1         06/27/23           ND         50.0         1         06/27/23           ND         50.0         1         06/27/23           mg/kg         mg/kg         Analyst: RAS	Reporting         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: SL           ND         0.0250         1         06/23/23         06/23/23           ND         0.0250         1         06/23/23         06/23/23           ND         0.0250         1         06/23/23         06/23/23           ND         0.0500         1         06/23/23         06/23/23           ND         0.0250         1         06/23/23         06/23/23           ND         0.0250         1         06/23/23         06/23/23           mg/kg         mg/kg         Analyst: SL           ND         20.0         1         06/23/23         06/23/23           mg/kg         mg/kg         Analyst: SL         ND         06/23/23         06/23/23           ND         20.0         1         06/23/23         06/23/23         06/23/23           mg/kg         mg/kg         Analyst: JL         ND         25.0         1         06/27/23         06/27/23           ND         50.0         1         06/27/23         06/27/23         06/27/23           ND<



WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 1:31:26PM

#### PH01 4' E306184-02

	L50010+ 02				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: SL		Batch: 2325080
ND	0.0250	1	06/23/23	06/23/23	
ND	0.0250	1	06/23/23	06/23/23	
ND	0.0250	1	06/23/23	06/23/23	
ND	0.0250	1	06/23/23	06/23/23	
ND	0.0500	1	06/23/23	06/23/23	
ND	0.0250	1	06/23/23	06/23/23	
	94.9 %	70-130	06/23/23	06/23/23	
mg/kg	mg/kg	Anal	yst: SL		Batch: 2325080
ND	20.0	1	06/23/23	06/23/23	
	89.6 %	70-130	06/23/23	06/23/23	
mg/kg	mg/kg	Anal	yst: JL		Batch: 2326020
ND	25.0	1	06/27/23	06/27/23	
ND	50.0	1	06/27/23	06/27/23	
	80.5 %	50-200	06/27/23	06/27/23	
mg/kg	mg/kg	Anal	yst: RAS		Batch: 2325082
ND	20.0	1	06/23/23	06/27/23	
	mg/kg ND Mg/kg ND mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         0.0250           MD         20.0           89.6 %         mg/kg           ND         25.0           ND         50.0           80.5 %         mg/kg           mg/kg         mg/kg	mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           94.9 %         70-130           mg/kg         mg/kg         Anal           ND         20.0         1           89.6 %         70-130         1           mg/kg         mg/kg         Anal           ND         25.0         1           ND         50.0         1           80.5 %         50-200           mg/kg         mg/kg         Anal	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: SL           ND         0.0250         1         06/23/23           ND         0.0250         1         06/23/23           ND         0.0250         1         06/23/23           ND         0.0500         1         06/23/23           ND         0.0250         1         06/23/23           ND         0.0250         1         06/23/23           mg/kg         mg/kg         Analyst: SL           ND         20.0         1         06/23/23           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         06/23/23           ND         25.0         1         06/27/23           ND         50.0         1         06/27/23           ND         50.0         1         06/27/23           Mg/kg         mg/kg         Analyst: RAS	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: SL           ND         0.0250         1         06/23/23         06/23/23           ND         0.0250         1         06/23/23         06/23/23           ND         0.0250         1         06/23/23         06/23/23           ND         0.0500         1         06/23/23         06/23/23           ND         0.0250         1         06/23/23         06/23/23           ND         0.0250         1         06/23/23         06/23/23           mg/kg         mg/kg         Analyst: SL           ND         20.0         1         06/23/23         06/23/23           mg/kg         mg/kg         Analyst: SL         ND         06/23/23         06/23/23           mg/kg         mg/kg         Analyst: JL         ND         25.0         1         06/27/23         06/27/23           ND         25.0         1         06/27/23         06/27/23         06/27/23           ND         50.0         1         06/27/23         06/27/23           80.5 %         50-200         06/27/23         06/27/23



WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 1:31:26PM

## PH01 6'

E306184-03						
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: SL		Batch: 2325080
Benzene	ND	0.0250	1	06/23/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/23/23	06/23/23	
Toluene	ND	0.0250	1	06/23/23	06/23/23	
o-Xylene	ND	0.0250	1	06/23/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/23/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/23/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		95.0 %	70-130	06/23/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: SL		Batch: 2325080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.2 %	70-130	06/23/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: JL		Batch: 2326020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/23	06/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/23	06/27/23	
Surrogate: n-Nonane		79.9 %	50-200	06/27/23	06/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: RAS		Batch: 2325082
Chloride	ND	20.0	1	06/23/23	06/27/23	



WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 1:31:26PM

#### PH02 0.5'

		E306184-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2325080
Benzene	ND	0.0250	1	06/23/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/23/23	06/23/23	
Toluene	ND	0.0250	1	06/23/23	06/23/23	
o-Xylene	ND	0.0250	1	06/23/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/23/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/23/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		94.5 %	70-130	06/23/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2325080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.3 %	70-130	06/23/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2326020
Diesel Range Organics (C10-C28)	60.6	25.0	1	06/27/23	06/27/23	
Oil Range Organics (C28-C36)	64.9	50.0	1	06/27/23	06/27/23	
Surrogate: n-Nonane		87.6 %	50-200	06/27/23	06/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2325082
Chloride	301	100	5	06/23/23	06/28/23	



WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 1:31:26PM

## PH02 4'

E306184-05						
Reporting						
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2325080
Benzene	ND	0.0250	1	06/23/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/23/23	06/23/23	
Toluene	ND	0.0250	1	06/23/23	06/23/23	
o-Xylene	ND	0.0250	1	06/23/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/23/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/23/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		93.7 %	70-130	06/23/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2325080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.4 %	70-130	06/23/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2326020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/23	06/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/23	06/27/23	
Surrogate: n-Nonane		85.3 %	50-200	06/27/23	06/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2325082
Chloride	81.4	20.0	1	06/23/23	06/27/23	



WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 1:31:26PM

#### PH02 6.5' E306184-06

		E300104-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2325080
Benzene	ND	0.0250	1	06/23/23	06/24/23	
Ethylbenzene	ND	0.0250	1	06/23/23	06/24/23	
Toluene	ND	0.0250	1	06/23/23	06/24/23	
o-Xylene	ND	0.0250	1	06/23/23	06/24/23	
o,m-Xylene	ND	0.0500	1	06/23/23	06/24/23	
Total Xylenes	ND	0.0250	1	06/23/23	06/24/23	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130	06/23/23	06/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2325080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/23	06/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %	70-130	06/23/23	06/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2326020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/23	06/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/23	06/27/23	
Surrogate: n-Nonane		83.4 %	50-200	06/27/23	06/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2325082
Chloride	216	20.0	1	06/23/23	06/27/23	



WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 1:31:26PM

## PH03 0.5'

E306184-07						
Reporting						
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2325080
Benzene	ND	0.0250	1	06/23/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/23/23	06/23/23	
Toluene	ND	0.0250	1	06/23/23	06/23/23	
o-Xylene	ND	0.0250	1	06/23/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/23/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/23/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		92.9 %	70-130	06/23/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2325080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	06/23/23	06/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: JL		Batch: 2326020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/23	06/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/23	06/27/23	
Surrogate: n-Nonane		82.1 %	50-200	06/27/23	06/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: RAS		Batch: 2325082
Chloride	1120	20.0	1	06/23/23	06/27/23	



WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 1:31:26PM

#### PH03 4'

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		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2325080
Benzene	ND	0.0250	1	06/23/23	06/24/23	
Ethylbenzene	ND	0.0250	1	06/23/23	06/24/23	
Toluene	ND	0.0250	1	06/23/23	06/24/23	
o-Xylene	ND	0.0250	1	06/23/23	06/24/23	
p,m-Xylene	ND	0.0500	1	06/23/23	06/24/23	
Total Xylenes	ND	0.0250	1	06/23/23	06/24/23	
Surrogate: 4-Bromochlorobenzene-PID		92.6 %	70-130	06/23/23	06/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2325080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/23	06/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	06/23/23	06/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2326020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/23	06/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/23	06/27/23	
Surrogate: n-Nonane		86.0 %	50-200	06/27/23	06/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2325082
Chloride	367	20.0	1	06/23/23	06/27/23	<del></del>



WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 1:31:26PM

## PH03 6'

E306184-09						
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2325080
Benzene	ND	0.0250	1	06/23/23	06/24/23	
Ethylbenzene	ND	0.0250	1	06/23/23	06/24/23	
Toluene	ND	0.0250	1	06/23/23	06/24/23	
o-Xylene	ND	0.0250	1	06/23/23	06/24/23	
o,m-Xylene	ND	0.0500	1	06/23/23	06/24/23	
Total Xylenes	ND	0.0250	1	06/23/23	06/24/23	
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	06/23/23	06/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2325080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/23	06/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.4 %	70-130	06/23/23	06/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: JL		Batch: 2326020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/23	06/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/23	06/28/23	
Surrogate: n-Nonane		80.8 %	50-200	06/27/23	06/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: RAS		Batch: 2325082
Chloride	353	20.0	1	06/23/23	06/27/23	



WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 1:31:26PM

#### PH04 0.5' E306184-10

		E300104-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2325080
Benzene	ND	0.0250	1	06/23/23	06/24/23	
Ethylbenzene	ND	0.0250	1	06/23/23	06/24/23	
Toluene	ND	0.0250	1	06/23/23	06/24/23	
o-Xylene	ND	0.0250	1	06/23/23	06/24/23	
p,m-Xylene	ND	0.0500	1	06/23/23	06/24/23	
Total Xylenes	ND	0.0250	1	06/23/23	06/24/23	
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	06/23/23	06/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2325080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/23	06/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.3 %	70-130	06/23/23	06/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: JL		Batch: 2326020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/23	06/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/23	06/28/23	
Surrogate: n-Nonane		76.0 %	50-200	06/27/23	06/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2325082
Chloride	356	100	5	06/23/23	06/28/23	
moriae	•••	100				



WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 1:31:26PM

## PH04 4'

E306184-11							
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2325080	
Benzene	ND	0.0250	1	06/23/23	06/24/23		
Ethylbenzene	ND	0.0250	1	06/23/23	06/24/23		
Toluene	ND	0.0250	1	06/23/23	06/24/23		
o-Xylene	ND	0.0250	1	06/23/23	06/24/23		
p,m-Xylene	ND	0.0500	1	06/23/23	06/24/23		
Total Xylenes	ND	0.0250	1	06/23/23	06/24/23		
Surrogate: 4-Bromochlorobenzene-PID		93.8 %	70-130	06/23/23	06/24/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2325080	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/23	06/24/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.2 %	70-130	06/23/23	06/24/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2326020	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/23	06/28/23		
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/23	06/28/23		
Surrogate: n-Nonane		77.3 %	50-200	06/27/23	06/28/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2325082	
Chloride	420	100	5	06/23/23	06/28/23		



WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 1:31:26PM

#### PH04 6'

E306184-12								
Reporting								
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: SL		Batch: 2325080		
Benzene	ND	0.0250	1	06/23/23	06/24/23			
Ethylbenzene	ND	0.0250	1	06/23/23	06/24/23			
Toluene	ND	0.0250	1	06/23/23	06/24/23			
o-Xylene	ND	0.0250	1	06/23/23	06/24/23			
p,m-Xylene	ND	0.0500	1	06/23/23	06/24/23			
Total Xylenes	ND	0.0250	1	06/23/23	06/24/23			
Surrogate: 4-Bromochlorobenzene-PID		93.6 %	70-130	06/23/23	06/24/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2325080		
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/23	06/24/23			
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %	70-130	06/23/23	06/24/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: JL		Batch: 2326020		
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/23	06/28/23			
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/23	06/28/23			
Surrogate: n-Nonane		89.2 %	50-200	06/27/23	06/28/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: RAS		Batch: 2325082		
Chloride	317	100	5	06/23/23	06/27/23			



WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 1:31:26PM

## PH05 0.5'

		E306184-13						
Reporting								
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2325080		
Benzene	ND	0.0250	1	06/23/23	06/24/23			
Ethylbenzene	ND	0.0250	1	06/23/23	06/24/23			
Toluene	ND	0.0250	1	06/23/23	06/24/23			
o-Xylene	ND	0.0250	1	06/23/23	06/24/23			
o,m-Xylene	ND	0.0500	1	06/23/23	06/24/23			
Total Xylenes	ND	0.0250	1	06/23/23	06/24/23			
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	06/23/23	06/24/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2325080		
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/23	06/24/23			
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.2 %	70-130	06/23/23	06/24/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2326020		
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/23	06/28/23			
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/23	06/28/23			
Surrogate: n-Nonane		82.0 %	50-200	06/27/23	06/28/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2325082		
Chloride	1100	100	5	06/23/23	06/27/23			



WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 1:31:26PM

#### PH05 4'

E306	101	1 4

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2325080
Benzene	ND	0.0250	1	06/23/23	06/24/23	
Ethylbenzene	ND	0.0250	1	06/23/23	06/24/23	
Toluene	ND	0.0250	1	06/23/23	06/24/23	
o-Xylene	ND	0.0250	1	06/23/23	06/24/23	
p,m-Xylene	ND	0.0500	1	06/23/23	06/24/23	
Total Xylenes	ND	0.0250	1	06/23/23	06/24/23	
Surrogate: 4-Bromochlorobenzene-PID		93.8 %	70-130	06/23/23	06/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2325080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/23	06/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.0 %	70-130	06/23/23	06/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2326020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/23	06/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/23	06/28/23	
Surrogate: n-Nonane		79.4 %	50-200	06/27/23	06/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2325082
Chloride	ND	20.0	1	06/23/23	06/28/23	



WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 1:31:26PM

#### PH05 6'

#### E306184-15

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2325080
Benzene	ND	0.0250	1	06/23/23	06/24/23	
Ethylbenzene	ND	0.0250	1	06/23/23	06/24/23	
Toluene	ND	0.0250	1	06/23/23	06/24/23	
o-Xylene	ND	0.0250	1	06/23/23	06/24/23	
p,m-Xylene	ND	0.0500	1	06/23/23	06/24/23	
Total Xylenes	ND	0.0250	1	06/23/23	06/24/23	
Surrogate: 4-Bromochlorobenzene-PID		94.4 %	70-130	06/23/23	06/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2325080
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/23	06/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.4 %	70-130	06/23/23	06/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2326020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/23	06/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/23	06/28/23	
Surrogate: n-Nonane		83.7 %	50-200	06/27/23	06/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2325082
Chloride	ND	20.0	1	06/23/23	06/27/23	



## **QC Summary Data**

RDX 9 #004 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 6/29/2023 1:31:26PM **Volatile Organics by EPA 8021B** Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2325080-BLK1) Prepared: 06/23/23 Analyzed: 06/23/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.53 8.00 94.2 70-130 LCS (2325080-BS1) Prepared: 06/23/23 Analyzed: 06/26/23 5.27 105 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.20 0.0250 5.00 104 70-130 5.29 0.0250 5.00 106 70-130 Toluene 103 o-Xylene 5.17 0.0250 5.00 70-130 10.6 10.0 106 70-130 0.0500 p.m-Xvlene 105 70-130 15.8 15.0 Total Xylenes 0.0250 8.00 92.2 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.38 Matrix Spike (2325080-MS1) Source: E306184-07 Prepared: 06/23/23 Analyzed: 06/23/23 4.74 0.0250 5.00 ND 94.8 54-133 Benzene ND 92.5 61-133 Ethylbenzene 4.63 0.0250 5.00 Toluene 4.70 0.0250 5.00 ND 93.9 61-130 4.62 ND 92.5 63-131 5.00 0.0250 o-Xylene p,m-Xylene 9.45 0.0500 10.0 ND 94.5 63-131 14.1 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.55 8.00 Matrix Spike Dup (2325080-MSD1) Source: E306184-07 Prepared: 06/23/23 Analyzed: 06/23/23 4.82 0.0250 5.00 ND 54-133 1.71 20 4.73 61-133 0.0250 5.00 ND 94.5 2.14 20 Ethylbenzene Toluene 4 79 0.0250 5.00 ND 959 61-130 2.05 20 4.72 5.00 ND 94.4 63-131 2.11 20 o-Xylene 0.0250 9.61 10.0 ND 96.1 63-131 1.77 20 p,m-Xylene 0.0500



14.3

7.56

0.0250

15.0

8.00

ND

95.6

94.5

63-131

70-130

1.88

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

# **QC Summary Data**

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 1:31:26PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno	•			6	29/2023 1:31:26PM
	Non	halogenated	Organics l	oy EPA 80	15D - 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 (2325080-BLK1)							Prepared: 0	6/23/23 Ana	lyzed: 06/23/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	70-130			
LCS (2325080-BS2)							Prepared: 0	6/23/23 Ana	lyzed: 06/23/23
Gasoline Range Organics (C6-C10)	45.5	20.0	50.0		91.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			
Matrix Spike (2325080-MS2)				Source:	E306184-0	07	Prepared: 0	6/23/23 Ana	lyzed: 06/23/23
Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.6	70-130			
Matrix Spike Dup (2325080-MSD2)				Source:	E306184-0	07	Prepared: 0	6/23/23 Ana	lyzed: 06/23/23
Gasoline Range Organics (C6-C10)	45.9	20.0	50.0	ND	91.8	70-130	6.02	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			



## **QC Summary Data**

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 1:31:26PM

Carlsbad NM, 88220		Project Manager	r: G1	lbert Moreno				C	5/29/2023 1:31:26PN
	Nonha	logenated Or	ganics by l	E <b>PA 8015I</b>	) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2326020-BLK1)							Prepared: 0	6/27/23 An	alyzed: 06/27/23
riesel Range Organics (C10-C28)	ND	25.0							
ril Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	45.0		50.0		90.1	50-200			
CS (2326020-BS1)							Prepared: 0	6/27/23 An	alyzed: 06/27/23
riesel Range Organics (C10-C28)	251	25.0	250		101	38-132			
urrogate: n-Nonane	38.9		50.0		77.8	50-200			
Aatrix Spike (2326020-MS1)				Source:	E306184-	12	Prepared: 0	6/27/23 An	alyzed: 06/27/23
riesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
urrogate: n-Nonane	35.4		50.0		70.9	50-200			
Matrix Spike Dup (2326020-MSD1)				Source:	E306184-	12	Prepared: 0	6/27/23 An	alyzed: 06/27/23
tiesel Range Organics (C10-C28)	254	25.0	250	ND	102	38-132	4.87	20	
urrogate: n-Nonane	36.0		50.0		72.0	50-200			



Chloride

## **QC Summary Data**

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 9 #004 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager		ilbert Moreno					6/29/2023 1:31:26PM
		Anions	by EPA 3	300.0/9056	1				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2325082-BLK1)							Prepared: 0	6/23/23 A	nalyzed: 06/27/23
Chloride	ND	20.0							
LCS (2325082-BS1)							Prepared: 0	6/23/23 A	nalyzed: 06/27/23
Chloride	244	20.0	250		97.7	90-110			
Matrix Spike (2325082-MS1)				Source:	E306184-	01	Prepared: 0	6/23/23 A	nalyzed: 06/27/23
Chloride	261	20.0	250	ND	105	80-120			
Matrix Spike Dup (2325082-MSD1)				Source:	E306184-	01	Prepared: 0	6/23/23 A	nalyzed: 06/27/23

250

20.0

104

80-120

0.226

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**

ſ	WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
١	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	06/29/23 13:31

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.

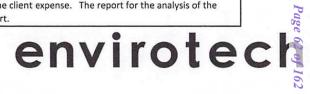
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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Client: V	VPX Energ	y Permia	n, LLC.	M. Carlotte		Z Z	Bill To			777	La	ab U	se O	nly	STATE.				T	AT			EPA P	rogram
	RDX 9 #00					Attention	n: Jim Raley			WO			Job	Num	ber	_	1D	2D	3D	Sta	tandard CWA		SDWA	
Project I	Manager:	Gilbert N	1oreno			Address:	5315 Buena Vista Dr.		E	300	0/8	4	010	28	$\infty$	) (				5 C	Day T	AT		
Address	: 13000 W	County	Rd 100			City, State	e, Zip: Carlsbad, NM, 8	8220				10-22	Anal	ysis a	nd M	etho	d							RCRA
City, Sta	te, Zip_Od	lessa,TX,	79765			Phone: 5	75-885-7502			by												. P. C.		
Phone: 8	332-541-7	719				Email: jim	n.raley@dvn.com	10		ORO					1		1						State	
Email: D	evon-tean	n@etech	env.com			WBS/WO: 21181921				30/0	н		_	0.0		6	ΣN		l 🛴		NM	CO	UT AZ	TX
Collecte	d by: Gilbe	ert More	no			Incident I	D: nAB1803254347		7	ig/c	802	826(	5010	300		'Ani			¥		×			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	)			Lab Numbe	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	верос		GDOC				Remarks	
9:00	6.21.23	S	1			PH	01		0.5								х							
9:05	6.21.23	S	1			PH	01	2	4'								х							
9:10	6.21.23	S	1			PH	01	3	6'								х	-						
9:20	6.21.23	S	1			PH	02	4	0.5								Х							
9:25	6.21.23	S	1			PH	02	5	4'								х							
9:30	6.21.23	S	1		PH02			6	6.5								х							10 2
9:40	6.21.23	S	1			PH	03	7	0.5								Х							
9:45	6.21.23	S	1			PH	03	8	4'								Х							
9:50	6.21.23	S	1			PH	03	9	6'								х							
10:00	6.21.23	S	1			PH	04	10	0.5								Х							
Addition	nal Instruc	tions:																						
	npler), attest t e of collectior			I CONTRACTOR AND			ampering with or intentionally  Sampled by: GM	mislabelling the s	ample l	ocation	٦,		1020		5.00								hey are samp quent days.	led or
G	by: (Sign		6.7	12.23	Time /300	> Mu	ved by: (Signature)	_ 622	23	Time	300	)	Rec	eive	d on i	ce:		ab U	se Or I	nly				
MI	ned by: (Sign	surl		12-23	Time 173	D A	ved by: (Signature)	6.27	.23	Time	84	15	T1				T2				T3			
Relinquish	ned by: (Sign	ature) WYZ	Date	23.23	Time 24	600 Receip	ved by (Signature)	- 0/23	13	Time	13	0		G Ter	np °C		1							
Sample Ma	trix: <b>S</b> - Soil, <b>S</b>	d - Solid, Sg	- Sludge, A -	Aqueous, O -	Other			Contain	er Typ	e: <b>g</b> -	glass	, p -	poly/	plasti	c, ag	- amb	er gl	ass, v	- VO	Α				
							rangements are made. Ha											nt exp	ense.	The r	report	for th	e analysis	of the
above san	nples is appl	icable only	to those sa	imples recei	ved by th	ne laboratory v	vith this COC. The liability o	f the laboratory	is limi	ited to	the a	mour	nt paid	d for o	n the	repor	t.							





Client: V	VPX Energ	y Permia	n, LLC.	Bill To				La	ab Us	se On	ly		Will I			TA	AT .	T	EPA Pr	ogram		
	RDX 9 #00		en Commenter		Att	ention: Jim Raley		Lab	WO#			Job N		ber		1D	2D	3D	Standar	d	CWA	SDWA
Project I	Manager:	Gilbert M	loreno			dress: 5315 Buena Vista Dr.		E.	306	184	1	010	-82	000	7				5 Day TA	T		
	: 13000 W				Cit	y, State, Zip: Carlsbad, NM, 8822	20	1				Analy				d						RCRA
City, Sta	te, Zip_Od	lessa,TX,	79765		Ph	one: 575-885-7502			by													
	332-541-7				Em	Email: jim.raley@dvn.com		1	RO												State	H->
	evon-tean	AL 100 TO	env.com			3S/WO: 21181921		1	0/0				0.		L.	ΣN			NM	co	UT AZ	TX
	d by: Gilbe				_	ident ID: nAB1803254347		1 -	) /DR( /DR( 260		010	300.		Anic				×				
Time	Date	Matrix	No. of Containers	Sample ID		Ident 15. 11/10100325 15 17	Lab	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	S	Cation/Anion	BGDOC		GDOC			Remarks	
Sampled	Sampled		Containers				Number	De	4 TP	BT	>	Σ	5	TDS	Ü	8	_	9				
10:05	6.21.23	S	1			PH04	11	4'								X						
10:10	6.21.23	S	1			PH04	12	6'								Х						
10:20	6.21.23	S	1			PH05	13	0.5								х						
10:25	6.21.23	S	1			PH05	14	4'								х						
10:30	6.21.23	S	1			PH05	15	6'								х						
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Addition	nal Instruc	tions:																				
					ample. I am awa	re that tampering with or intentionally misl	abelling the sa	mple l	ocation	١,		\$5425 mc#C554	0001710-000						eceived on ice th less than 6 °C or		A Description of the Control of the	led or
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Cuf	Grand 6.22.23 1300 Mille Convols 6223 1300 Received on ice: (Y) N																					
Jan Jan	ned by: (Sign	Seus		12-23	1730	Received by: (Signature)	6.22	2	Time	84	5	<u>T1</u>				T2			<u>T3</u>			
Relinquis	ned by: (Sign	MV65	Date	23.23	7 400	Received by Signatury Man	Date / 23/	23	Time	30	)	AVG	Ten	np °C		+						
Sample Ma				Aqueous, O -	Other		Containe	r Typ	e: <b>g</b> -	glass	, p - I	poly/p	lasti	c, ag	- aml	oer g	lass, v	/ - VO	A			
Note: San	nples are dis	carded 30	days after r	esults are re	ported unless	other arrangements are made. Hazaro														for the	e analysis	of the
						ratory with this COC. The liability of th																





Page 64 of 162

Printed: 6/23/2023 10:31:52AM

#### **Envirotech Analytical Laboratory**

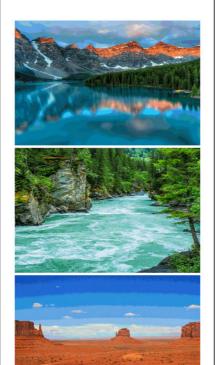
Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	06/23/23	07:30		Work Order ID:	E306184
Phone:	(539) 573-4018	Date Logged In:	06/23/23	07:58		Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/29/23	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	he sample ID match the COC?		Yes				
	he number of samples per sampling site location may	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: C	'ourier		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	carrier. <u>c</u>	<u> </u>		
	all samples received within holding time?	•	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.			,		Comment	s/Resolution
	<u> Furn Around Time (TAT)</u>						
6. Did th	e 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 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				
	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
	•	temperature. 4	<u>C</u>				
	Container 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				
	non-VOC samples collected in the correct containers'	9	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field La		ners conected?	165				
	field sample labels filled out with the minimum info	rmation:					
	ample ID?	mation.	Yes				
	Date/Time Collected?		Yes				
(	Collectors name?		Yes				
Sample 1	<u>Preservation</u>						
21. Does	the COC or field labels indicate the samples were pr	reserved?	No				
22. Are s	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multiph:	ase Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes	s, does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcont	ract Laboratory						
	amples required to get sent to a subcontract laborato	my?	No				
	a subcontract laboratory specified by the client and it	-	NA	Subcontract Lab	· NA		
	nstruction	1 50 WHO.	1111	Subcontract Lat	, IVA		
Chemi	<u>iisti uctioii</u>						

Report to:
Gilbert Moreno





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 9 #004

Work Order: E306185

Job Number: 01058-0007

Received: 6/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/29/23

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: 6/29/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 9 #004

Workorder: E306185

Date Received: 6/23/2023 7:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/23/2023 7:30:00AM, under the Project Name: RDX 9 #004.

The analytical test results summarized in this report with the Project Name: RDX 9 #004 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

Raina Schwanz

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Envirotech Web Address: www.envirotech-inc.com



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## **Sample Summary**

_			•	
ſ	WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Reported:
l	5315 Buena Vista Dr	Project Number:	01058-0007	Reported.
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	06/29/23 11:16

Client Sample ID	Lab Sample ID Matri	Sampled	Received	Container
FS02 1.5'	E306185-01A Soil	06/21/23	06/23/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 11:16:17AM

### FS02 1.5' E306185-01

Result	Reporting Limit	Dilution	n Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	alyst: IY		Batch: 2325079
ND	0.0250	1	06/23/23	06/27/23	
ND	0.0250	1	06/23/23	06/27/23	
ND	0.0250	1	06/23/23	06/27/23	
ND	0.0250	1	06/23/23	06/27/23	
ND	0.0500	1	06/23/23	06/27/23	
ND	0.0250	1	06/23/23	06/27/23	
	97.3 %	70-130	06/23/23	06/27/23	
mg/kg	mg/kg	Ana	Analyst: IY		Batch: 2325079
ND	20.0	1	06/23/23	06/27/23	
	85.3 %	70-130	06/23/23	06/27/23	
mg/kg	mg/kg	Ana	alyst: KM		Batch: 2326015
ND	25.0	1	06/26/23	06/27/23	
ND	50.0	1	06/26/23	06/27/23	
	93.7 %	50-200	06/26/23	06/27/23	
mg/kg	mg/kg	Ana	alyst: BA		Batch: 2325081
249	20.0	1	06/23/23	06/28/23	
	mg/kg ND Mg/kg ND mg/kg	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         0.0250           MD         20.0           85.3 %         mg/kg           MD         25.0           ND         50.0           93.7 %         mg/kg           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Ana           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           MD         0.0250         1           MD         20.0         1           85.3 %         70-130           mg/kg         mg/kg         Ana           ND         25.0         1           ND         50.0         1           93.7 %         50-200           mg/kg         mg/kg         Ana	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         06/23/23           ND         0.0250         1         06/23/23           ND         0.0250         1         06/23/23           ND         0.0500         1         06/23/23           ND         0.0250         1         06/23/23           ND         0.0250         1         06/23/23           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         06/23/23           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         06/26/23           ND         50.0         1         06/26/23           ND         50.0         1         06/26/23           Mg/kg         mg/kg         Analyst: KM	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         06/23/23         06/27/23           ND         0.0250         1         06/23/23         06/27/23           ND         0.0250         1         06/23/23         06/27/23           ND         0.0500         1         06/23/23         06/27/23           ND         0.0250         1         06/23/23         06/27/23           ND         0.0250         1         06/23/23         06/27/23           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         06/23/23         06/27/23           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         06/26/23         06/27/23           ND         25.0         1         06/26/23         06/27/23           ND         50.0         1         06/26/23         06/27/23           MD         50.0         1         06/26/23         06/27/23           Mg/kg         mg/kg         Analyst: BA



## **OC Summary Data**

		QC SI	ullilli	ary Data	Į.				
WPX Energy - Carlsbad		Project Name:	R	DX 9 #004					Reported:
5315 Buena Vista Dr		Project Number:	0	1058-0007					
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno				6/2	9/2023 11:16:17AM
		Volatile O	rganics l	by EPA 8021	1B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2325079-BLK1)							Prepared: 0	6/23/23 Anal	yzed: 06/26/23
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	7.83		8.00		97.8	70-130			
LCS (2325079-BS1)							Prepared: 0	6/23/23 Anal	yzed: 06/26/23
Benzene	5.10	0.0250	5.00		102	70-130			
Ethylbenzene	4.91	0.0250	5.00		98.3	70-130			
Toluene	5.10	0.0250	5.00		102	70-130			
p-Xylene	5.06	0.0250	5.00		101	70-130			
o,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.86		8.00		98.3	70-130			
Matrix Spike (2325079-MS1)				Source: I	E306185-	01	Prepared: 0	6/23/23 Anal	yzed: 06/27/23
Benzene	5.27	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133			
Toluene	5.27	0.0250	5.00	ND	105	61-130			
p-Xylene	5.23	0.0250	5.00	ND	105	63-131			
o,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.7	0.0250	15.0	ND	105	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.4	70-130			
Matrix Spike Dup (2325079-MSD1)				Source: I	E306185-	01	Prepared: 0	6/23/23 Anal	yzed: 06/27/23
Benzene	4.87	0.0250	5.00	ND	97.3	54-133	8.01	20	
Ethylbenzene	4.69	0.0250	5.00	ND	93.8	61-133	8.06	20	
Toluene	4.86	0.0250	5.00	ND	97.2	61-130	8.07	20	
o-Xylene	4.81	0.0250	5.00	ND	96.3	63-131	8.29	20	
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131	7.97	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.7	63-131	8.08	20	
a in the state of	7.00		0.00		07.5	70 120			



Surrogate: 4-Bromochlorobenzene-PID

7.80

70-130

## **QC Summary Data**

WPX Energy - Carlsbad	Project Name:	RDX 9 #004 01058-0007	Reported:
5315 Buena Vista Dr Carlsbad NM, 88220	Project Number: Project Manager:	Gilbert Moreno	6/29/2023 11:16:17AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				(	5/29/2023 11:16:17AM	
	Nonhalogenated Organics by EPA 8015D - GRO							Analyst: IY		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2325079-BLK1)			Prepared: 0				Prepared: 06/23/23 Analyzed: 06/26/23			
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.86		8.00		85.7	70-130				
LCS (2325079-BS2)							Prepared: 0	6/23/23 Aı	nalyzed: 06/26/23	
Gasoline Range Organics (C6-C10)	45.6	20.0	50.0		91.1	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.8	70-130				
Matrix Spike (2325079-MS2)				Source:	E306185-	01	Prepared: 0	6/23/23 Aı	nalyzed: 06/27/23	
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.93		8.00		86.7	70-130				
Matrix Spike Dup (2325079-MSD2)				Source:	E306185-	01	Prepared: 0	6/23/23 Aı	nalyzed: 06/27/23	
Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.6	70-130	1.62	20		
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.2	70-130				

# **QC Summary Data**

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	-
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 11:16:17AM

Carlsbad NM, 88220		Project Manage	r: Gı	lbert Moreno				(	5/29/2023 11:16:17Al
	Nonha	logenated Or	ganics by	EPA 8015I	) - 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 (2326015-BLK1)							Prepared: 0	6/26/23 Aı	nalyzed: 06/26/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.6		50.0		101	50-200			
LCS (2326015-BS1)							Prepared: 0	6/26/23 Aı	nalyzed: 06/26/23
Diesel Range Organics (C10-C28)	268	25.0	250		107	38-132			
Surrogate: n-Nonane	46.1		50.0		92.1	50-200			
Matrix Spike (2326015-MS1)				Source:	E306172-	05	Prepared: 0	6/26/23 Aı	nalyzed: 06/26/23
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	49.8		50.0		99.7	50-200			
Matrix Spike Dup (2326015-MSD1)				Source:	E306172-	05	Prepared: 0	6/26/23 Aı	nalyzed: 06/26/23
Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132	1.20	20	
Surrogate: n-Nonane	47.9		50.0		95.8	50-200			



## **QC Summary Data**

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	0	DX 9 #004 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					6/29/2023 11:16:17AM
		Anions	by EPA	300.0/9056A	1				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2325081-BLK1)							Prepared: 0	6/23/23 A	Analyzed: 06/28/23
Chloride	ND	20.0							
LCS (2325081-BS1)							Prepared: 0	6/23/23 A	Analyzed: 06/28/23
Chloride	267	20.0	250		107	90-110			
Matrix Spike (2325081-MS1)				Source: 1	E306183-	01	Prepared: 0	6/23/23 A	Analyzed: 06/28/23
Chloride	540	20.0	250	242	119	80-120			
Matrix Spike Dup (2325081-MSD1)				Source: 1	E306183-	01	Prepared: 0	6/23/23 A	Analyzed: 06/28/23
Chloride	548	20.0	250	242	122	80-120	1.48	20	M2

#### QC Summary Report Comment:

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



### **Definitions and Notes**

	WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
-	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	06/29/23 11:16

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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 Energ	y Permiai	n, LLC.			Bill To			100	La	ab U	se On	ly		33			TA	AT		EPA Pr	ogram
Project: F	RDX 9 #00	14			Atte	ention: Jim Raley		Lab	WO	#		Job I	Num	ber	40.	1D	2D	3D	Sta	ndard	CWA	SDWA
Project N	lanager:	Gilbert M	1oreno			dress: 5315 Buena Vista Dr.		TE:	301	0/8	35	010	158	-00	07				5 Da	ay TAT		
Address:	13000 W	County F	Rd 100		City	, State, Zip: Carlsbad, NM, 882	20					Analy				1	•					RCRA
City, Stat	e, Zip_Od	essa,TX,	79765		Pho	one: 575-885-7502			þ													
Phone: 8					Em	ail: jim.raley@dvn.com		1	8												State	
Email: De		E Database	env.com		_	S/WO: 21181921		1	0/0				0.		E	ΣN				им со	UT AZ	TX
Collected						dent ID: nAB1803254347		1 _	/DR	8021	260	010	300		Anic	0.00		¥	l F	×		
Time	Date		No. of			delit ib. Habiboszs4547	Lab	h ft	380	by 8	by 8	ls 6	ide		/uc	00		ပ	l	×		
Sampled	Sampled	Matrix	Containers	Sample ID			Number	Depth(ft.)	TPH GRO/DRO/ORO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	верос		врос			Remarks	
15:00	6.21.23	S	1			FS02	1	1.5'	1							Х						
			0.	-1/																		
S.			Jan																			
	/																					
/																						
Addition	al Instruc	tions:						<u> </u>			l					l	1					
No. of the last					ample. I am awar	e that tampering with or intentionally misl	abelling the sa	mple l	ocatio	n,										n ice the day 6 °C on subse	they are samplequent days.	ed or
Relinquish			Date	10.170 1700	Time	Received by: (Signature)	Date (2)	23	Time	00								se On	nly			
Relinquishe	1000 (	bulo	Date		Time 1730	Received by: (Signature)  MUM MS25	Date 6.11	1020	Time	84	5	Rece	eivec	on i	ce:	T2	)/ N			тз		
Relinquishe	ed by: (Sign	nreso	Date 6.	13.23	Time 2400	Received by: Gignature Man	Date   123/	23	Time 7	:3		AVG				_						
Sample Mat	rix: <b>S</b> - Soil, <b>S</b>	d - Solid, Sg	- Sludge, A -	Aqueous, O - (	Other		Containe	er Typ	e: g -	glass	, p - I	poly/p	lasti	c, ag -	amb	er gl	ass, v	- VO	Α			
The second secon						ther arrangements are made. Hazard atory with this COC. The liability of th	THE PROPERTY OF THE PROPERTY OF THE PARTY OF						3000 A 11-000				nt exp	ense.	The re	eport for th	ne analysis	of the



e client expense. The report for the analysis of the t.

envirotection envirotection environment.

Printed: 6/23/2023 10:33:24AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	06/23/23	07:30		Work Order ID:	E306185
Phone:	(539) 573-4018	Date Logged In:	06/23/23	08:16		Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/29/23	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC					
	amples dropped off by client or carrier?	on une coc	Yes Yes	Carrian C	·		
	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	Carrier: <u>C</u>	<u>ourier</u>		
	Il samples received within holding time?	ica anaryses.	Yes				
5. Wester at	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic		100			Comment	s/Resolution
Sample T	<u> Turn Around Time (TAT)</u>						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	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				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes				
	,	temperature. 4	<u>C</u>				
Sample C	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?	ı	Yes				
	appropriate volume/weight or number of sample contains		Yes				
Field Lat	· · · · · · · · · · · · · · · · · · ·	ers conected?	103				
•	field sample labels filled out with the minimum info	rmation:					
	ample ID?	imation.	Yes				
	ate/Time Collected?		Yes	l			
C	ollectors name?		Yes				
Sample P	reservation_						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborator	w9	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	· NI A		
		30 WIIO.	1421	Subcontract Lab	, IVA		
Client Ir	<u>nstruction</u>						
L							

Date

Report to:
Gilbert Moreno



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 9 #004

Work Order: E306186

Job Number: 01058-0007

Received: 6/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/29/23

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: 6/29/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 9 #004

Workorder: E306186

Date Received: 6/23/2023 7:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/23/2023 7:30:00AM, under the Project Name: RDX 9 #004.

The analytical test results summarized in this report with the Project Name: RDX 9 #004 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

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### **Sample Summary**

		•	
WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	Reported.
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	06/29/23 11:17

Client Sample ID	Lab Sample ID M	<b>Iatrix</b>	Sampled	Received	Container
FS01 1.5'	E306186-01A	Soil	06/21/23	06/23/23	Glass Jar, 2 oz.



# Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 11:17:39AM

#### FS01 1.5' E306186-01

	1200100 01				
Result	Reporting Limit		n Prepared	Analyzed	Notes
mg/kg	mg/kg	An	alyst: IY		Batch: 2325079
ND	0.0250	1	06/23/23	06/27/23	
ND	0.0250	1	06/23/23	06/27/23	
ND	0.0250	1	06/23/23	06/27/23	
ND	0.0250	1	06/23/23	06/27/23	
ND	0.0500	1	06/23/23	06/27/23	
ND	0.0250	1	06/23/23	06/27/23	
	96.3 %	70-130	06/23/23	06/27/23	
mg/kg	mg/kg	An	alyst: IY		Batch: 2325079
ND	20.0	1	06/23/23	06/27/23	
	85.3 %	70-130	06/23/23	06/27/23	
mg/kg	mg/kg	An	alyst: KM		Batch: 2326015
30.0	25.0	1	06/26/23	06/27/23	
ND	50.0	1	06/26/23	06/27/23	
	96.2 %	50-200	06/26/23	06/27/23	
ma/ka	ma/ka	An	alvst: BA		Batch: 2325081
mg/kg	mg/kg				Datem 2020 001
	mg/kg ND	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         20.0250           85.3 %         mg/kg           mg/kg         mg/kg           30.0         25.0           ND         50.0	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         An           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           MD         0.0250         1           MD         20.0250         1           ND         20.0         1           85.3 %         70-130           mg/kg         mg/kg         An           30.0         25.0         1           ND         50.0         1           96.2 %         50-200	Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         06/23/23           ND         0.0250         1         06/23/23           ND         0.0250         1         06/23/23           ND         0.0500         1         06/23/23           ND         0.0250         1         06/23/23           ND         0.0250         1         06/23/23           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         06/23/23           mg/kg         mg/kg         Analyst: KM           30.0         25.0         1         06/26/23           ND         50.0         1         06/26/23           96.2 %         50-200         06/26/23	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         06/23/23         06/27/23           ND         0.0250         1         06/23/23         06/27/23           ND         0.0250         1         06/23/23         06/27/23           ND         0.0500         1         06/23/23         06/27/23           ND         0.0250         1         06/23/23         06/27/23           ND         0.0250         1         06/23/23         06/27/23           MD         0.0250         1         06/23/23         06/27/23           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         06/23/23         06/27/23           mg/kg         mg/kg         Analyst: KM           30.0         25.0         1         06/26/23         06/27/23           ND         50.0         1         06/26/23         06/27/23           96.2 %         50-200         06/26/23         06/27/23



		QC Si	umma	ny Data	ı				
WPX Energy - Carlsbad		Project Name:	RI	OX 9 #004					Reported:
5315 Buena Vista Dr		Project Number:	01	058-0007					
Carlsbad NM, 88220		Project Manager:	Gi	ilbert Moreno					6/29/2023 11:17:39AM
		Volatile O	rganics b	y EPA 802	1B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2325079-BLK1)							Prepared: 0	6/23/23 A	nalyzed: 06/26/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.8	70-130			
LCS (2325079-BS1)							Prepared: 0	6/23/23 A	nalyzed: 06/26/23
Benzene	5.10	0.0250	5.00		102	70-130			
thylbenzene	4.91	0.0250	5.00		98.3	70-130			
oluene	5.10	0.0250	5.00		102	70-130			
-Xylene	5.06	0.0250	5.00		101	70-130			
,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.86		8.00		98.3	70-130			
Matrix Spike (2325079-MS1)				Source:	E306185-	01	Prepared: 0	6/23/23 A	nalyzed: 06/27/23
Benzene	5.27	0.0250	5.00	ND	105	54-133			
thylbenzene	5.08	0.0250	5.00	ND	102	61-133			
oluene	5.27	0.0250	5.00	ND	105	61-130			
-Xylene	5.23	0.0250	5.00	ND	105	63-131			
o,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.7	0.0250	15.0	ND	105	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.4	70-130			
Matrix Spike Dup (2325079-MSD1)				Source:	E306185-	01	Prepared: 0	6/23/23 A	nalyzed: 06/27/23
Benzene	4.87	0.0250	5.00	ND	97.3	54-133	8.01	20	
Ethylbenzene	4.69	0.0250	5.00	ND	93.8	61-133	8.06	20	
Toluene	4.86	0.0250	5.00	ND	97.2	61-130	8.07	20	
o-Xylene	4.81	0.0250	5.00	ND	96.3	63-131	8.29	20	
o,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131	7.97	20	
Total Villamas	145	0.0250	15.0	ND	06.7	62 121	8 08	20	



14.5

7.80

0.0250

15.0

8.00

ND

96.7

97.5

63-131

70-130

8.08

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	-
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 11:17:39AM

Carlsbad NM, 88220		Project Manager	r: Gi	lbert Moreno				6/2	9/2023 11:17:39AM
	Non	halogenated		Analyst: IY					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2325079-BLK1)							Prepared: 0	6/23/23 Anal	yzed: 06/26/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.86		8.00		85.7	70-130			
LCS (2325079-BS2)							Prepared: 0	6/23/23 Anal	yzed: 06/26/23
Gasoline Range Organics (C6-C10)	45.6	20.0	50.0		91.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.8	70-130			
Matrix Spike (2325079-MS2)				Source:	E306185-	01	Prepared: 0	6/23/23 Anal	yzed: 06/27/23
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.93		8.00		86.7	70-130			
Matrix Spike Dup (2325079-MSD2)				Source:	E306185-	01	Prepared: 0	6/23/23 Anal	yzed: 06/27/23
Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.6	70-130	1.62	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.2	70-130			

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/29/2023 11:17:39AM

Carlsbad NM, 88220		Project Manager	r: G1	lbert Moreno				(	5/29/2023 11:17:39AI
	Nonha	logenated Or	ganics by l	EPA 8015I	) - 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 (2326015-BLK1)							Prepared: 0	6/26/23 Aı	nalyzed: 06/26/23
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	50.6		50.0		101	50-200			
LCS (2326015-BS1)							Prepared: 0	6/26/23 Aı	nalyzed: 06/26/23
Diesel Range Organics (C10-C28)	268	25.0	250		107	38-132			
urrogate: n-Nonane	46.1		50.0		92.1	50-200			
Matrix Spike (2326015-MS1)				Source:	E306172-0	05	Prepared: 0	6/26/23 Aı	nalyzed: 06/26/23
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132			
urrogate: n-Nonane	49.8		50.0		99.7	50-200			
Matrix Spike Dup (2326015-MSD1)				Source:	E306172-0	05	Prepared: 0	6/26/23 Aı	nalyzed: 06/26/23
Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132	1.20	20	
urrogate: n-Nonane	47.9		50.0		95.8	50-200			

WPX Energy - Carlsbad		Project Name:		OX 9 #004					Reported:
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:		058-0007 lbert Moreno					6/29/2023 11:17:39AM
		Anions	by EPA 3	00.0/9056 <i>A</i>	<b>\</b>				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2325081-BLK1)							Prepared: 0	06/23/23	Analyzed: 06/28/23
Chloride	ND	20.0							
LCS (2325081-BS1)							Prepared: 0	6/23/23	Analyzed: 06/28/23
Chloride	267	20.0	250		107	90-110			
Matrix Spike (2325081-MS1)				Source:	E306183-0	)1	Prepared: 0	6/23/23 A	Analyzed: 06/28/23
Chloride	540	20.0	250	242	119	80-120			
Matrix Spike Dup (2325081-MSD1)				Source:	E306183-0	)1	Prepared: 0	6/23/23 A	Analyzed: 06/28/23
Chloride	548	20.0	250	242	122	80-120	1.48	20	M2

#### QC Summary Report Comment:

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



#### **Definitions and Notes**

	WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
-	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	06/29/23 11:17

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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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lient: W	/PX Energ	v Permia	n IIC		The same	Bill To					l a	hlle	e On	lv				_	TA	T	EPA P	rogran
	RDX 9 #00		1, 220.			Attention: Jim Raley			Lah	WO#			Joh N	Jum	ber		1D	2D		Standard	CWA	SDW
	/lanager: (		oreno			Address: 5315 Buena Vista Dr			F	306	018	10	Ola	<b>FX</b> -	-000	57		-	-	5 Day TAT		1 30,
	13000 W					City, State, Zip: Carlsbad, NM,	88220			2		1	Analy:	sis an	nd Me	thod						RCF
	e, Zip_Od					Phone: 575-885-7502				þý			Ť									
	32-541-7					Email: jim.raley@dvn.com			1 1	ORC S						1					State	
mail: De	evon-tean	n@etech	env.com			WBS/WO: 21181921				30/0	٦			0.0		e o	M			NM CO	UT AZ	TX
Collected	by: Gilbe	ert Morer	10			Incident ID: nAB1803254347				JQ/C	805	8260	5010	300		'Ani			¥	×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Z	Lab lumber	Depth(ft.)	ТРН GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	верос		GDOC		Remarks	i
14:00	6.21.23	S	1			FS01		1	1.5'								Х					
			Joint	6																		
Addition	al Instruc	tions:					<b>!</b>		II				الرحيا	است		4						en e
				ticity of this sa		aware that tampering with or intentional action.  Sampled by: GM	lly mislabelli	ng the san	nple lo	cation,										ceived on ice the di less than 6 °C on su		pled or
	ed by: (Sign		Date		Time	Received by: (Signature)  Wickle Chyl	/	ite 11-2	13	Time (	50		Rece	ived	on ic	e:		ab Us	e On	ly		
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elinguish WWC	ed by: (Sign ed by: (Sign	Sus	Date	2223		Received by: (Signature)  Received by: (Signature)	2 6		W	Time (	349	5	<u>T1</u>			_	<u>T2</u>			<u>T3</u>		



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Printed: 6/23/2023 10:34:52AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	06/23/23	07:30		Work Order ID:	E306186
Phone:	(539) 573-4018	Date Logged In:	06/23/23	08:18		Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/29/23	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mate	ch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: C	ourier		
	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	Carrier. <u>C</u>	<u>ourici</u>		
	Il samples received within holding time?	iou unui, sos.	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio					Comment	s/Resolution
Sample T	<u> [urn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	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				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes				
	•	temperature. 4	<u> </u>				
	Container queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lat		ers confected?	105				
•	field sample labels filled out with the minimum info	rmation:					
	ample ID?	mation.	Yes				
	pate/Time Collected?		Yes	l			
C	ollectors name?		Yes				
Sample P	Preservation_						
21. Does	the COC or field labels indicate the samples were pro-	eserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	e?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborator	v9	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	· NI A		
	· - ·	30 WIIO:	1421	Subcontract Lab	, IVA		
Client Ir	<u>nstruction</u>						
L							

Report to:
Gilbert Moreno





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 9 #004

Work Order: E307142

Job Number: 01058-0007

Received: 7/26/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/31/23

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: 7/31/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 9 #004

Workorder: E307142

Date Received: 7/26/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/26/2023 8:15:00AM, under the Project Name: RDX 9 #004.

The analytical test results summarized in this report with the Project Name: RDX 9 #004 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

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Rayny Hagan

West Texas Midland/Odessa Area

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Definitions and Notes	10
Chain of Custody etc.	11

### **Sample Summary**

_		<del>_</del>		
ſ	WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Reported:
l	5315 Buena Vista Dr	Project Number:	01058-0007	Keporteu.
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/31/23 14:58

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS03 1'	E307142-01A	Soil	07/24/23	07/26/23	Glass Jar, 2 oz.



# Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/31/2023 2:58:11PM

#### FS03 1' E307142-01

		E30/142-01					
Aughte	Dagult	Reporting		nti om	Duamanad	Analyzad	Notes
Analyte	Result	Limit	Dilt	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2330057
Benzene	ND	0.0250		1	07/26/23	07/26/23	
Ethylbenzene	ND	0.0250		1	07/26/23	07/26/23	
Toluene	ND	0.0250		1	07/26/23	07/26/23	
o-Xylene	ND	0.0250		1	07/26/23	07/26/23	
p,m-Xylene	ND	0.0500		1	07/26/23	07/26/23	
Total Xylenes	ND	0.0250	1	1	07/26/23	07/26/23	
Surrogate: Bromofluorobenzene		102 %	70-130		07/26/23	07/26/23	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130		07/26/23	07/26/23	
Surrogate: Toluene-d8		103 %	70-130		07/26/23	07/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg mg/kg Analyst: RKS		RKS		Batch: 2330057	
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/26/23	07/26/23	
Surrogate: Bromofluorobenzene		102 %	70-130		07/26/23	07/26/23	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130		07/26/23	07/26/23	
Surrogate: Toluene-d8		103 %	70-130		07/26/23	07/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2330056
Diesel Range Organics (C10-C28)	ND	25.0		1	07/26/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0		1	07/26/23	07/27/23	
Surrogate: n-Nonane		114 %	50-200		07/26/23	07/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2330059
Chloride	267	200	1	.0	07/26/23	07/27/23	



RDX 9 #004 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 7/31/2023 2:58:11PM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2330057-BLK1) Prepared: 07/26/23 Analyzed: 07/26/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.513 0.500 103 70-130 Surrogate: 1,2-Dichloroethane-d4 0.498 0.500 99.5 70-130 0.500 102 70-130 Surrogate: Toluene-d8 0.508 LCS (2330057-BS1) Prepared: 07/26/23 Analyzed: 07/26/23 2.41 0.0250 2.50 96.4 70-130 Benzene 2.42 2.50 70-130 96.8 Ethylbenzene 0.0250 2.43 0.0250 2.50 97.1 70-130 2.45 70-130 0.0250 2.50 98.1 o-Xylene 4.89 5.00 97.8 70-130 p,m-Xylene 0.0500 7.34 0.0250 7.50 97.9 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.506 0.500 101 70-130 0.500 98.7 70-130 Surrogate: 1,2-Dichloroethane-d4 0.494 70-130 Surrogate: Toluene-d8 0.500 0.514 Matrix Spike (2330057-MS1) Source: E307143-07 Prepared: 07/26/23 Analyzed: 07/26/23 48-131 2.29 0.0250 2.50 ND 91.5 45-135 Ethylbenzene 2.34 0.0250 2.50 ND 93.5 48-130 Toluene 2.31 0.0250 2.50 ND 92.4 2.34 0.0250 2.50 ND 93.8 43-135 o-Xylene 4.63 5.00 ND 92.7 43-135 p,m-Xylene 0.0500 Total Xylenes 6.98 0.0250 7.50 ND 93.0 43-135 Surrogate: Bromofluorobenzene 0.506 0.500 101 70-130 0.500 98.7 70-130 Surrogate: 1,2-Dichloroethane-d4 0.494 0.500 70-130 0.517 Surrogate: Toluene-d8 Matrix Spike Dup (2330057-MSD1) Source: E307143-07 Prepared: 07/26/23 Analyzed: 07/26/23 0.870 2.31 0.0250 2.50 ND 92.3 48-131 23 2.37 0.0250 2.50 ND 94.8 45-135 1.38 27 Ethylbenzene ND 93.6 48-130 1.29 24 2.34 2.50 Toluene 0.0250 o-Xylene 2.38 0.0250 2.50 ND 95.1 43-135 1.38 27 4.72 5.00 ND 94.3 43-135 27 0.0500 1.78 p,m-Xylene 27 7.09 0.0250 7.50 ND 94.6 43-135 1.64 Total Xylenes Surrogate: Bromofluorobenzene 0.507 0.500 101 70-130



0.500

0.500

0.493

0.511

98.6

102

70-130

70-130

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

WPX Energy - Carlsbad Project Name: RDX 9 #004 Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 7/31/2023 2:58:11PM

Carlsbad NM, 88220		Project Manager	r: Gi	lbert Moreno				7/3	1/2023 2:58:11PM	
Nonhalogenated Organics by EPA 8015D - GRO Analyst: RKS										
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2330057-BLK1)							Prepared: 0	7/26/23 Analy	vzed: 07/26/23	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5	70-130				
Surrogate: Toluene-d8	0.508		0.500		102	70-130				
LCS (2330057-BS2)							Prepared: 0	7/26/23 Analy	zed: 07/26/23	
Gasoline Range Organics (C6-C10)	51.8	20.0	50.0		104	70-130				
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130				
Surrogate: Toluene-d8	0.517		0.500		103	70-130				
Matrix Spike (2330057-MS2)				Source:	E307143-	07	Prepared: 0	7/26/23 Analy	zed: 07/26/23	
Gasoline Range Organics (C6-C10)	54.1	20.0	50.0	ND	108	70-130				
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130				
Surrogate: Toluene-d8	0.526		0.500		105	70-130				

Matrix Spike Dup (2330057-MSD2)				Source:	Source: E307143-07			7/26/23 Analyzed: 07/26/23
Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	ND	110	70-130	1.90	20
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130		
Surrogate: Toluene-d8	0.529		0.500		106	70-130		

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/31/2023 2:58:11PM

Carlsbad NM, 88220		Project Manager	r: G1	lbert Moreno					7/31/2023 2:58:11PM
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2330056-BLK1)							Prepared: 0	7/26/23 Aı	nalyzed: 07/27/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	60.6		50.0		121	50-200			
LCS (2330056-BS1)							Prepared: 0	7/26/23 Aı	nalyzed: 07/27/23
Diesel Range Organics (C10-C28)	279	25.0	250		111	38-132			
urrogate: n-Nonane	55.8		50.0		112	50-200			
Matrix Spike (2330056-MS1)				Source:	E307143-	04	Prepared: 0	7/26/23 Aı	nalyzed: 07/27/23
Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132			
urrogate: n-Nonane	40.5		50.0		80.9	50-200			
Matrix Spike Dup (2330056-MSD1)				Source:	E307143-	04	Prepared: 0	7/26/23 Aı	nalyzed: 07/27/23
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132	0.912	20	
'urrogate: n-Nonane	37.9		50.0		75.7	50-200			

Chloride

## **QC Summary Data**

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 9 #004 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager	: G	ilbert Moreno					7/31/2023 2:58:11PM
		Anions	by EPA	300.0/9056 <i>A</i>	<b>\</b>				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2330059-BLK1)							Prepared: 0	7/26/23 A	Analyzed: 07/27/23
Chloride	ND	20.0							
LCS (2330059-BS1)							Prepared: 0	7/26/23 A	Analyzed: 07/27/23
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2330059-MS1)				Source:	E307142-0	)1	Prepared: 0	7/26/23 A	Analyzed: 07/27/23
Chloride	528	200	250	267	104	80-120			
Matrix Spike Dup (2330059-MSD1)				Source:	E307142-0	01	Prepared: 0	7/26/23 A	Analyzed: 07/27/23

250

200

267

105

80-120

0.0984

#### QC Summary Report Comment:

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



## **Definitions and Notes**

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/31/23 14:58

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.



ol:	IDV F					D.III =	100	T										ED 4 5	
	VPX Energy Pe	rmian LLO	C			Bill To						e On		TAT 1D 2D 3D Standard				rogram	
	RDX 9 #004 Manager: Gilbe	art More	20			Attention: Jim Raley Address: 5315 Buena Vista Dr.			WO#	141			Number		ZD	3D	Standard 5 day TAT	CWA	SDWA
	13000 W Cou					City, State, Zip: Carlsbad, NM, 88220			VII	72	•	Analy	58-0007 sis and Metho	nd n			Juay IAI		RCRA
	te, Zip_Odessa				1 1 1 1 1 1	Phone: 575-885-7502			6	T		-tildiy	I I I	T	П	$\neg \tau$			Herer
	Phone: (832) 541-7719				nail: jim.raley@dvn.com	70	1	ORO									State		
Email: Devon-team@etechenv.com				D: 21181921	41 7	1	30/C		0		0.0	Σ×			NM CO	UT AZ	TX		
Collected	d by: Edyte Ko	nan			Inc	Incident ID: nAB1803254347		0/0	/ 802	826	6010	900 e 300	1		¥			M.	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample II	)		Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	ВББОС		GDOC		Remarks	
11:00	7/24/2023	S	1			FS03	1	1'						Х					Page rogram SDWA RCRA
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	pler), attest to the					at tampering with or intentionally mislabell Sampled by:	ing the sample	locatio	n,								eceived on ice the da less than 6 °C on sub		
	ed by (Signature		Date		Time 09:00	Received by: (Signature)	Date 7-25	:5?	Time	900	)	Pos	eived on ice:		ab Us		ly		
Relinquish	ed by: (Signature	e)	Date		Time 1700	Received by: (Signature)	Date 7.2!		Time			TI	eived on ice:	To	א וע		<b>T</b> 2		
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envirotech Inc.

Printed: 7/26/2023 8:26:18AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	07/26/23 0	8:15	Work Order ID:	E307142
Phone:	(539) 573-4018	Date Logged In:	07/26/23 0	8:24	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	07/31/23 1	7:00 (3 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Cou	<u>rier</u>	
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes		<u>Commen</u>	ts/Resolution
Sample T	<u> Curn Around Time (TAT)</u>					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	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			
	e sample received on ice? If yes, the recorded temp is 4°C. Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes C			
	Container _	· • • · · · · · <u> </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			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contai		Yes			
Field Lal	•					
	field sample labels filled out with the minimum info	ormation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes	_		
C	ollectors name?		Yes			
	<u>Preservation</u>					
	the COC or field labels indicate the samples were p	reserved?	No			
	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
	se Sample Matrix					
	the sample have more than one phase, i.e., multipha		No			
27. If yes	, does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	act Laboratory					
28. Are sa	amples required to get sent to a subcontract laborato	ry?	No			
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA	Subcontract Lab: N	JA.	
Client Ir	nstruction_					

Date

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

Report to:
Gilbert Moreno



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

## **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 9 #004

Work Order: E308062

Job Number: 01058-0007

Received: 8/10/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 8/18/23

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: 8/18/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 9 #004

Workorder: E308062

Date Received: 8/10/2023 7:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/10/2023 7:00:00AM, under the Project Name: RDX 9 #004.

The analytical test results summarized in this report with the Project Name: RDX 9 #004 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

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## **Sample Summary**

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Donoutoda
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/18/23 13:51

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
PH09 0.5'	E308062-01A Soil	08/08/23	08/10/23	Glass Jar, 2 oz.
PH09 1'	E308062-02A Soil	08/08/23	08/10/23	Glass Jar, 2 oz.



## **Sample Data**

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/18/2023 1:51:16PM

#### PH09 0.5' E308062-01

		E308002-01				
Agairta	Result	Reporting Limit	Dilution	Duomono d	A malarga J	Notes
Analyte	Kesult	Limit	Dilution	Prepared	Analyzed	notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/15/23	
Ethylbenzene	ND	0.0250	1	08/10/23	08/15/23	
Toluene	ND	0.0250	1	08/10/23	08/15/23	
o-Xylene	ND	0.0250	1	08/10/23	08/15/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/15/23	
Total Xylenes	ND	0.0250	1	08/10/23	08/15/23	
Surrogate: 4-Bromochlorobenzene-PID		96.8 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: IY		Batch: 2332088
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.1 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2332062	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		95.1 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2332082
Chloride	ND	20.0	1	08/10/23	08/12/23	



## **Sample Data**

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/18/2023 1:51:16PM

#### PH09 1'

#### E308062-02

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/15/23	
Ethylbenzene	ND	0.0250	1	08/10/23	08/15/23	
Toluene	ND	0.0250	1	08/10/23	08/15/23	
o-Xylene	ND	0.0250	1	08/10/23	08/15/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/15/23	
Total Xylenes	ND	0.0250	1	08/10/23	08/15/23	
Surrogate: 4-Bromochlorobenzene-PID		97.3 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2332088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.0 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2332062
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		90.8 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2332082
	ND	20.0	-	08/10/23	08/12/23	· · · · · · · · · · · · · · · · · · ·



RDX 9 #004 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 8/18/2023 1:51:16PM **Volatile Organics by EPA 8021B** Analyst: IY Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2332088-BLK1) Prepared: 08/10/23 Analyzed: 08/14/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.62 8.00 95.2 70-130 LCS (2332088-BS1) Prepared: 08/10/23 Analyzed: 08/14/23 4.96 5.00 99.1 70-130 Benzene 0.0250 Ethylbenzene 4.95 0.0250 5.00 99.0 70-130 5.00 0.0250 5.00 99.9 70-130 Toluene o-Xylene 4.98 0.0250 5.00 99.6 70-130 10.1 10.0 101 70-130 0.0500 p.m-Xvlene 100 70-130 15.1 15.0 Total Xylenes 0.0250 8.00 95.8 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.66 Matrix Spike (2332088-MS1) Source: E308059-02 Prepared: 08/10/23 Analyzed: 08/14/23 5.05 0.0250 5.00 ND 54-133 Benzene ND 61-133 Ethylbenzene 5.03 0.0250 5.00 101 Toluene 5.10 0.0250 5.00 ND 102 61-130 ND 101 63-131 5.06 5.00 0.0250 o-Xylene p,m-Xylene 10.3 0.0500 10.0 ND 103 63-131 15.3 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.65 8.00

Source: E308059-02

101

102

101

103

102

95.9

54-133

61-133

61-130

63-131

63-131

63-131

70-130

0.275

0.229

0.134

0.124

0.00292

0.0389

ND

ND

ND

ND

ND

ND



Prepared: 08/10/23 Analyzed: 08/15/23

20

20

20

20

20

20

Matrix Spike Dup (2332088-MSD1)

Surrogate: 4-Bromochlorobenzene-PID

Ethylbenzene Toluene

o-Xylene

p,m-Xylene

Total Xylenes

5.04

5.05

5.09

5.05

10.3

15.3

7.67

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

5.00

5.00

5.00

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10.0

15.0

8.00

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/18/2023 1:51:16PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				8/18	3/2023 1:51:16PM
	Nonhalogenated Organics by EPA 8015D - GRO						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 (2332088-BLK1)							Prepared: 0	8/10/23 Analy	zed: 08/14/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.3	70-130			
LCS (2332088-BS2)							Prepared: 0	8/10/23 Analy	zed: 08/14/23
Gasoline Range Organics (C6-C10)	46.6	20.0	50.0		93.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			
Matrix Spike (2332088-MS2)				Source:	E308059-	02	Prepared: 0	8/10/23 Analy	zed: 08/15/23
Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.7	70-130			
Matrix Spike Dup (2332088-MSD2)				Source:	E308059-	02	Prepared: 0	8/10/23 Analy	zed: 08/15/23
Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	6.89	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/18/2023 1:51:16PM

Carlsbad NM, 88220		Project Manager	r: Gi	lbert Moreno					8/18/2023 1:51:16PN
	Nonha	logenated Or	ganics by	EPA 8015I	) - 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 (2332062-BLK1)							Prepared: 0	8/09/23 A	nalyzed: 08/10/23
riesel Range Organics (C10-C28)	ND	25.0							
ril Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	46.9		50.0		93.8	50-200			
.CS (2332062-BS1)							Prepared: 0	8/09/23 A	nalyzed: 08/10/23
riesel Range Organics (C10-C28)	236	25.0	250		94.3	38-132			
urrogate: n-Nonane	44.2		50.0		88.4	50-200			
Aatrix Spike (2332062-MS1)				Source:	E308057-0	02	Prepared: 0	8/09/23 A	nalyzed: 08/10/23
riesel Range Organics (C10-C28)	238	25.0	250	ND	95.1	38-132			
urrogate: n-Nonane	42.2		50.0		84.4	50-200			
Matrix Spike Dup (2332062-MSD1)				Source:	E308057-0	02	Prepared: 0	8/09/23 A	nalyzed: 08/10/23
riesel Range Organics (C10-C28)	241	25.0	250	ND	96.5	38-132	1.42	20	
urrogate: n-Nonane	43.1		50.0		86.2	50-200			



Chloride

## **QC Summary Data**

WPX Energy - Carlsbad		Project Name:	R	DX 9 #004					Reported:
5315 Buena Vista Dr		Project Number:	01	.058-0007					
Carlsbad NM, 88220		Project Manager	: G	ilbert Moreno					8/18/2023 1:51:16PM
		Anions	by EPA 3	600.0/9056 <i>A</i>	<b>A</b>				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2332082-BLK1)							Prepared: 0	8/10/23 A	nalyzed: 08/12/23
Chloride	ND	20.0							
LCS (2332082-BS1)							Prepared: 0	8/10/23 A	nalyzed: 08/12/23
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2332082-MS1)				Source:	E308061-	)1	Prepared: 0	8/10/23 A	nalyzed: 08/12/23
Chloride	258	20.0	250	ND	103	80-120			
Matrix Spike Dup (2332082-MSD1)				Source:	E308061-	01	Prepared: 0	8/10/23 A	nalyzed: 08/12/23

250

20.0

104

80-120

0.947

20

#### QC Summary Report Comment:

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



## **Definitions and Notes**

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/18/23 13:51

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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Project Informa	ilon				Chain of C	ustou	ıy											Page
Client: WPX En	rgy Permi	an, LLC.	T	Bill To				La	h Use	e Only					TA	Т	EPA P	rograr
Project: RDX 9				Attention: Jim Raley		Lab	WO#					er	1D	2D	3D	Standard	CWA	SDV
Project Manage		Moreno		Address: 5315 Buena Vista D	r.	F	30	804	22	010:	58-0	, 2007				5 Day TAT		
Address: 13000	W County	Rd 100		City, State, Zip: Carlsbad, NM	1, 88220			,,,				Metho				THE HOLE		RC
City, State, Zip_	Odessa,TX	, 79765		Phone: 575-885-7502			þ									and the second		
Phone: 832-54:				Email: jim.raley@dvn.com			ORO										State	
Email: Devon-to				WBS/WO: 21181921			30/0	н		_	0.0	uo	ΣN		_	NM CO	UT AZ	TX
Collected by: G	bert More	eno		Incident ID: nAB1803254347		T T	jq/c	805	826(	5010	300	/Ani			¥	×		
Time Date Sampled Sample	Matrix	No. of Containers	Sample ID		Lab Numbe	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	LDS Cation/Anion	BGDOC		GDOC		Remarks	
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10:00 8.8.2	S S	1		PH09	2								X					
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Additional Inst	uctions:																	
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			may be grounds for I							received	packed	in ice at an				ess than 6 °C on subs	equent days.	
Relinquished by: (S	gnature)	Bate 8	9.23 Time	Received by: (Signature)		23	Time	130		Recei	ved o	n ice:		ab U	se Oni	y		
Relinquished by: (S	grature)	Date &	9-23 Time	Received by: (Signature)	Sao 8.9	.23	Time	100	,	T1			T2			<u></u>		
Relinquished by: (S	gnature)	Date	9.23 Time	Received by Stenature	212 8/10	122	Time			AVG 1	[emn	° C	1					
0-11			Aqueous, O - Other	so www / la	Contair	1 C	1/	-							1/01			



or disposed of at the client expense. The report for the analysis of the aid for on the report.

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Proje	ect Inf	orma	tion
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Chain of Custody

Page	<u>l</u> of <u>l</u>	Received by OCD: 8/30/2023 9:59:38 AM
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SDWA		Ü
RCRA		8/30
		/2023
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THE PROPERTY OF THE PARTY.	RDX 9 #00					Atte	ention: Jim Raley		Lab	WO	#		Job	Num	ber		1D	2D	3D	Sta	andard	CWA	SDWA
		Gilbert M				Add	ress: 5315 Buena Vista Dr.		E	30	801	22	010	<i>758</i>	-00	07					ay TAT		
		County F				City,	, State, Zip: Carlsbad, NM, 8822	.0				Strain Sent	Analy	sis a	nd Me	thod							RCRA
		essa,TX,	79765			Pho	ne: 575-885-7502			þý												<b>EURIS</b>	
	32-541-7					Ema	il: jim.raley@dvn.com			ORO												State	
Email: De	von-tean	n@eteche	env.com			WBS	5/WO: 21181921			30/0	-	-		0.0		no	NM				NM CO	UT AZ	TX
Collected	by: Gilbe	ert Morer	10			Incid	dent ID: nAB1803254347		3	id/c	802	826(	0100	300		Ani	0000		¥		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 802	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	верос		GDOC			Remarks	
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				Aqueous, O -				Containe	Тур	e:g-	glass,	<b>p</b> - p	oly/p	lastic	, ag -	amb	er gla	155, V	- VOA	1			
							her arrangements are made. Hazard	ous samples	will b	e retu	rned t	o clier	nt or c	ispos	ed of	at the	clien	t expe	nse.	The r	eport for th	e analysis o	of the
ahova can	nloc is ann	icable only	to those sa	males rereis	rad by th	alahora	story with this COC The liability of the	Inhoratory	limi	tad to	tho ne		t main	for a	the .	-							The state of the s



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Printed: 8/10/2023 1:29:39PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

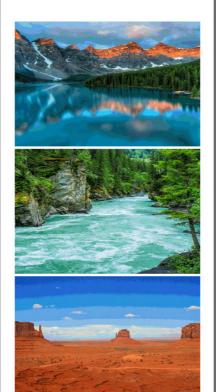
Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	08/10/23 07	<b>':00</b>	Work Or	der ID:	E308062
Phone:	(539) 573-4018	Date Logged In:	08/09/23 15	:16	Logged	In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	08/16/23 17	7:00 (4 day TAT)			
Chain of	Custody (COC)						
	e sample ID match the COC?		No				
	the number of samples per sampling site location mat	ch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: C	'ourier		
	c COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	Carrier. <u>c</u>	<u>ourier</u>		
	I samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.			,	<u>C</u>	omment	s/Resolution
	urn Around Time (TAT)				Camala ID an are	. 4 . :	
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		-		s received did not
Sample C					match sample ID:	s liste	d on COC. Client
	ample cooler received?		Yes		asked to add the	depths	to the COC to
8. If yes, v	was cooler received in good condition?		Yes		match IDs on con	tainers	S.
9. Was the	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				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
		temperature. 1	<u>~</u>				
Sample C	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers'	)	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab		iers conceteu.	103				
	field sample labels filled out with the minimum info	rmation:					
	ample ID?	mation.	Yes				
	ate/Time Collected?		Yes	l			
Co	ollectors name?		Yes				
Sample P	<u>reservation</u>						
21. Does t	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	imple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	netals?	No				
Multipha	se Sample Matrix						
26. Does t	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontra	act Laboratory						
	imples required to get sent to a subcontract laborator	rv?	No				
	subcontract laboratory specified by the client and if	-		Subcontract Lab	ı· na		
				240001111401 240			
Chent in	struction						

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

Report to:
Gilbert Moreno





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 9 #004

Work Order: E308063

Job Number: 01058-0007

Received: 8/10/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/15/23

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: 8/15/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 9 #004

Workorder: E308063

Date Received: 8/10/2023 7:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/10/2023 7:00:00AM, under the Project Name: RDX 9 #004.

The analytical test results summarized in this report with the Project Name: RDX 9 #004 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

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

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

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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## **Sample Summary**

Γ	WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Donoutoda
l	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/15/23 14:31

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH08 0.5'	E308063-01A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.
PH08 1'	E308063-02A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.



# Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/15/2023 2:31:11PM

#### PH08 0.5' E308063-01

		E308003-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	•		Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/15/23	Batem 2572000
Ethylbenzene	ND	0.0250	1	08/10/23	08/15/23	
Coluene	ND	0.0250	1	08/10/23	08/15/23	
-Xylene	ND	0.0250	1	08/10/23	08/15/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/15/23	
Fotal Xylenes	ND	0.0250	1	08/10/23	08/15/23	
Surrogate: 4-Bromochlorobenzene-PID		97.0 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	Analyst: IY		Batch: 2332088
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.6 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2332062
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		93.6 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2332082
Chloride	ND	200	10	08/10/23	08/12/23	



## **Sample Data**

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/15/2023 2:31:11PM

#### PH08 1'

#### E308063-02

		ъ .:				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: IY		Batch: 2332088
Benzene	ND	0.0250	1	08/10/23	08/15/23	
Ethylbenzene	ND	0.0250	1	08/10/23	08/15/23	
Toluene	ND	0.0250	1	08/10/23	08/15/23	
o-Xylene	ND	0.0250	1	08/10/23	08/15/23	
p,m-Xylene	ND	0.0500	1	08/10/23	08/15/23	
Total Xylenes	ND	0.0250	1	08/10/23	08/15/23	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: IY		Batch: 2332088
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/10/23	08/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.9 %	70-130	08/10/23	08/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2332062
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		90.3 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: BA		Batch: 2332082
Chloride	ND	200	10	08/10/23	08/12/23	



RDX 9 #004 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 8/15/2023 2:31:11PM **Volatile Organics by EPA 8021B** Analyst: IY Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2332088-BLK1) Prepared: 08/10/23 Analyzed: 08/14/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.62 8.00 95.2 70-130 LCS (2332088-BS1) Prepared: 08/10/23 Analyzed: 08/14/23 4.96 5.00 99.1 70-130 Benzene 0.0250 Ethylbenzene 4.95 0.0250 5.00 99.0 70-130 5.00 0.0250 5.00 99.9 70-130 Toluene o-Xylene 4.98 0.0250 5.00 99.6 70-130 10.1 10.0 101 70-130 0.0500 p.m-Xvlene 100 70-130 15.1 15.0 Total Xylenes 0.0250 8.00 95.8 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.66 Matrix Spike (2332088-MS1) Source: E308059-02 Prepared: 08/10/23 Analyzed: 08/14/23 5.05 0.0250 5.00 ND 54-133 Benzene ND 61-133 Ethylbenzene 5.03 0.0250 5.00 101 Toluene 5.10 0.0250 5.00 ND 102 61-130 ND 101 63-131 5.06 5.00 0.0250 o-Xylene p,m-Xylene 10.3 0.0500 10.0 ND 103 63-131 15.3 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.65 8.00

Source: E308059-02

101

102

101

103

102

95.9

54-133

61-133

61-130

63-131

63-131

63-131

70-130

0.275

0.229

0.134

0.124

0.00292

0.0389

ND

ND

ND

ND

ND

ND



Prepared: 08/10/23 Analyzed: 08/15/23

20

20

20

20

20

20

Matrix Spike Dup (2332088-MSD1)

Surrogate: 4-Bromochlorobenzene-PID

Ethylbenzene Toluene

o-Xylene

p,m-Xylene

Total Xylenes

5.04

5.05

5.09

5.05

10.3

15.3

7.67

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

5.00

5.00

5.00

5.00

10.0

15.0

8.00

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/15/2023 2:31:11PM

Carlsbad NM, 88220		Project Manager	r: Gi	lbert Moreno				8/1:	5/2023 2:31:11PM
	Non	Analyst: IY							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2332088-BLK1)							Prepared: 0	8/10/23 Analy	zed: 08/14/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.3	70-130			
LCS (2332088-BS2)							Prepared: 0	8/10/23 Analy	zed: 08/14/23
Gasoline Range Organics (C6-C10)	46.6	20.0	50.0		93.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			
Matrix Spike (2332088-MS2)				Source:	E308059-	02	Prepared: 0	8/10/23 Analy	zed: 08/15/23
Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.7	70-130			
Matrix Spike Dup (2332088-MSD2)				Source:	E308059-	02	Prepared: 0	8/10/23 Analy	zed: 08/15/23
Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	6.89	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/15/2023 2:31:11PM

Carlsbad NM, 88220		Project Manager	r: G1	lbert Moreno					3/15/2023 2:31:11PN
	Nonha	logenated Or	ganics by l	EPA 8015I	) - 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 (2332062-BLK1)							Prepared: 0	8/09/23 An	alyzed: 08/10/23
tiesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	46.9		50.0		93.8	50-200			
.CS (2332062-BS1)							Prepared: 0	8/09/23 An	alyzed: 08/10/23
tiesel Range Organics (C10-C28)	236	25.0	250		94.3	38-132			
urrogate: n-Nonane	44.2		50.0		88.4	50-200			
Matrix Spike (2332062-MS1)				Source:	E308057-0	02	Prepared: 0	8/09/23 An	alyzed: 08/10/23
tiesel Range Organics (C10-C28)	238	25.0	250	ND	95.1	38-132			
urrogate: n-Nonane	42.2		50.0		84.4	50-200			
Matrix Spike Dup (2332062-MSD1)				Source:	E308057-	02	Prepared: 0	8/09/23 An	alyzed: 08/10/23
tiesel Range Organics (C10-C28)	241	25.0	250	ND	96.5	38-132	1.42	20	
urrogate: n-Nonane	43.1		50.0		86.2	50-200			

WPX Energy - Carlsbad		Project Name:		DX 9 #004					Reported:	
5315 Buena Vista Dr		Project Number:		058-0007						
Carlsbad NM, 88220		Project Manager:	G:	ilbert Moreno					8/15/2023 2:31:11	PM
		Anions	by EPA 3	800.0/9056 <i>A</i>	<b>\</b>				Analyst: BA	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2332082-BLK1)							Prepared: 0	8/10/23	Analyzed: 08/12/23	
Chloride	ND	20.0								
LCS (2332082-BS1)							Prepared: 0	8/10/23	Analyzed: 08/12/23	
Chloride	259	20.0	250		104	90-110				
Matrix Spike (2332082-MS1)				Source:	E308061-0	)1	Prepared: 0	8/10/23	Analyzed: 08/12/23	
Chloride	258	20.0	250	ND	103	80-120				
Matrix Spike Dup (2332082-MSD1)				Source:	E308061-0	)1	Prepared: 0	8/10/23	Analyzed: 08/12/23	
Chloride	260	20.0	250	ND	104	80-120	0.947	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**

ſ	WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
١	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/15/23 14:31

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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	RDX 9 #00	y Permiar	n, LLC.				Bill To			111011			e Only			10	lan	TA			Program
		Gilbert M	oreno			ntion: Jim Ral	ena Vista Dr.		Lab	WO#	NI	2	OlO:		m	1 10	2D	3D	Standar 5 Day TA	0074.0 C000 W CVC	SDWA
		County F					arlsbad, NM, 8822	20		100	المال		Analysi	and	Metho	nd n			J Day 17	VI.	RCRA
		lessa,TX,				ie: 575-885-7		20		>		Ť	tilaly 31	T	TVICTIO	Ť	Т	П		150	itelt/t
	32-541-7					l: jim.raley@			1	RO										State	
mail: De	von-tean	n@eteche	env.com			/WO: 211819			1	0/01	п	_		9	5	ΣN			NM	CO UT A	Z TX
Collected	by: Gilbe	ert Morer	10			ent ID: nAB1			T .	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Cation/Anion			¥	×		
Time	Date	Matrix	No. of	Sample ID	·			Lab	Depth(ft.)	I GR(	X by	C by	tals (		ion/	BGDOC		СБОС		Remar	le c
Sampled	Sampled	Madix	Containers	Sample 15				Number	Dep	4TP	BTE	ΝOΛ	Me	5 4	Cati	BGI		GD		Remai	<b>.</b>
9:30	8.8.23	S	1			PH08		1								X					Program SDWA RCRA ZTX
9:40	8.8.23	S	1			PH08		2								Х					
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I, (field samp date or time Relinquish	of collection eaby: (Signated by: (Signated	ature)				Received by: (Si	gnature)	<b>3</b> .9	-23	Time	100		T1	cuo		T2			<u>T3</u>		
Relinquishe Relinquishe Relinquishe McU Relinquishe	of collection eaby: (Signated by: (Signated	ature) ature) Luncol ature)		Time	15	Received by: (Si	gnature) WHY	Date L	-23	Time			T1 AVG T			124			<u>T3</u>		



enviroteche enviroteche

Project	Informatio

#### Chain of Custody

Page 1	of 1
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Received by OCD: 8/30/2023 9:59:38 AM

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	PX Energ		n, LLC.					Bill To		le nate		_	ab U	se On						TA				ogram
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And the second second	13000 W			Netherland				arlsbad, NM, 88220	)					Analy	sis a	nd Me	thoc				200			RCRA
City, Stat	e, Zip_Od	lessa,TX,	79765			Pho	ne: 575-885-7	7502			by													
Phone: 8	32-541-7	719				Ema	il: jim.raley@	dvn.com			ORO				To the						400		State	
	evon-tean					WBS	WO: 211819	921			30/0	н	_		0.0		uo u	MN		~		NM CO	UT AZ	TX
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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	TDS	Cation/Anion	верос		GDOC			Remarks	
9:30	8.8.23	S	1				PH08 0.	51	1									х				Adde	1 de	oths
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or disposed of at the client expense. The report for the analysis of the aid for on the report.

Page 110 envirotech 210 environment 21

Printed: 8/10/2023 1:30:31PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	08/10/23 0	7:00	Work Order ID:	E308063
Phone:	(539) 573-4018	Date Logged In:	08/09/23 1	5:18	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	08/16/23 1	7:00 (4 day TAT)		
	Custody (COC)		<b></b>			
	te sample ID match the COC?  The number of samples per sampling site location materials.	tch the COC	No			
	amples dropped off by client or carrier?	ich the COC	Yes			
	• • •	stad amalysaas?	Yes Yes	Carrier: <u>C</u>	<u>Courier</u>	
	e COC complete, i.e., signatures, dates/times, requestal samples received within holding time?	sied analyses?	Yes			
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.		103	ı	<u>Comme</u>	nts/Resolution
	urn Around Time (TAT)		••		Sample ID on contain	ers received did not
	COC indicate standard TAT, or Expedited TAT?		Yes		-	
Sample C					match sample IDs list	
	ample cooler received?		Yes		asked to add the depth	s to the COC to
-	was cooler received in good condition?		Yes		match IDs on containe	ers.
	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			
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes C			
Sample C		_				
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers'	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab						
	field sample labels filled out with the minimum info	ormation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes	ı,		
C	ollectors name?		Yes			
	reservation					
	the COC or field labels indicate the samples were pr	reserved?	No			
	ample(s) correctly preserved?	. 1.0	NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
	se Sample Matrix					
	the sample have more than one phase, i.e., multipha		No			
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontra	act Laboratory					
28. Are sa	imples required to get sent to a subcontract laborato	ry?	No			
29. Was a	subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab	: NA	
Client In	struction					
<u>Chem in</u>	isti uction					
1						
1						

Date

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

Report to:
Gilbert Moreno



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 9 #004

Work Order: E308064

Job Number: 01058-0007

Received: 8/10/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/15/23

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: 8/15/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 9 #004

Workorder: E308064

Date Received: 8/10/2023 7:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/10/2023 7:00:00AM, under the Project Name: RDX 9 #004.

The analytical test results summarized in this report with the Project Name: RDX 9 #004 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

een: //3 20/ 1/02

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

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Technical Representative/Client Services

Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@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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PH07 1'	6
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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
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## **Sample Summary**

Γ	WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Donoutodi
l	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/15/23 11:31

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH07 0.5'	E308064-01A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.
PH07 1'	E308064-02A	Soil	08/08/23	08/10/23	Glass Jar, 2 oz.



# Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/15/2023 11:31:37AM

#### PH07 0.5' E308064-01

D 1:		Dil di	D 1		N.
Result	Limit	Dilutio	n Prepared	Analyzed	Notes
mg/kg	mg/kg	An	alyst: IY		Batch: 2332090
ND	0.0250	1	08/10/23	08/11/23	
ND	0.0250	1	08/10/23	08/11/23	
ND	0.0250	1	08/10/23	08/11/23	
ND	0.0250	1	08/10/23	08/11/23	
ND	0.0500	1	08/10/23	08/11/23	
ND	0.0250	1	08/10/23	08/11/23	
	98.1 %	70-130	08/10/23	08/11/23	
	103 %	70-130	08/10/23	08/11/23	
	94.0 %	70-130	08/10/23	08/11/23	
mg/kg	mg/kg	An	alyst: IY		Batch: 2332090
ND	20.0	1	08/10/23	08/11/23	
	98.1 %	70-130	08/10/23	08/11/23	
	103 %	70-130	08/10/23	08/11/23	
	94.0 %	70-130	08/10/23	08/11/23	
mg/kg	mg/kg	An	alyst: KM		Batch: 2332068
ND	25.0	1	08/09/23	08/12/23	
ND	50.0	1	08/09/23	08/12/23	
	90.8 %	50-200	08/09/23	08/12/23	
mg/kg	mg/kg	An	alyst: BA		Batch: 2332082
ND	200	10	08/10/23	08/12/23	
	ND ND ND ND ND ND ND ND ND Mg/kg ND Mg/kg	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           98.1 %         103 %           94.0 %         94.0 %           mg/kg         mg/kg           ND         20.0           98.1 %         103 %           94.0 %         94.0 %           mg/kg         mg/kg           ND         25.0           ND         50.0           90.8 %         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         An           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         70-130         1           98.1 %         70-130           mg/kg         mg/kg         An           ND         20.0         1           98.1 %         70-130           103 %         70-130           94.0 %         70-130           mg/kg         mg/kg         An           ND         25.0         1           ND         50.0         1           90.8 %         50-200	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         08/10/23           ND         0.0250         1         08/10/23           ND         0.0250         1         08/10/23           ND         0.0250         1         08/10/23           ND         0.0500         1         08/10/23           ND         0.0250         1         08/10/23           ND         0.0250         1         08/10/23           103 %         70-130         08/10/23           94.0 %         70-130         08/10/23           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         08/10/23           103 %         70-130         08/10/23           94.0 %         70-130         08/10/23           103 %         70-130         08/10/23           94.0 %         70-130         08/10/23           94.0 %         70-130         08/10/23           ND         25.0         1         08/09/23           ND         50.0         1         08/09/23	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         08/10/23         08/11/23           ND         0.0500         1         08/10/23         08/11/23           ND         0.0250         1         08/10/23         08/11/23           ND         0.0250         1         08/10/23         08/11/23           ND         0.0250         1         08/10/23         08/11/23           98.1 %         70-130         08/10/23         08/11/23           94.0 %         70-130         08/10/23         08/11/23           08/10/23         08/11/23         08/11/23           103 %         70-130         08/10/23         08/11/23           103 %         70-130         08/10/23         08/11/23           103 %         70-130         08/10/23         08/11/23           103 %         7



## **Sample Data**

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/15/2023 11:31:37AM

#### PH07 1'

		E308064-02					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		Batch: 2332090
Benzene	ND	0.0250	1		08/10/23	08/11/23	
Ethylbenzene	ND	0.0250	1		08/10/23	08/11/23	
Toluene	ND	0.0250	1		08/10/23	08/11/23	
o-Xylene	ND	0.0250	1		08/10/23	08/11/23	
p,m-Xylene	ND	0.0500	1		08/10/23	08/11/23	
Total Xylenes	ND	0.0250	1		08/10/23	08/11/23	
Surrogate: Bromofluorobenzene		101 %	70-130		08/10/23	08/11/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		08/10/23	08/11/23	
Surrogate: Toluene-d8		93.9 %	70-130		08/10/23	08/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	Y		Batch: 2332090
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/10/23	08/11/23	
Surrogate: Bromofluorobenzene		101 %	70-130		08/10/23	08/11/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		08/10/23	08/11/23	
Surrogate: Toluene-d8		93.9 %	70-130		08/10/23	08/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: I	ΚM		Batch: 2332068
Diesel Range Organics (C10-C28)	ND	25.0	1		08/09/23	08/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	l	08/09/23	08/12/23	
Surrogate: n-Nonane		95.7 %	50-200		08/09/23	08/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: I	ВА		Batch: 2332082
Chloride	ND	200	10	0	08/10/23	08/12/23	



RDX 9 #004 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 8/15/2023 11:31:37AM Volatile Organic Compounds by EPA 8260B Analyst: IY Spike Source RPD Reporting Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2332090-BLK1) Prepared: 08/10/23 Analyzed: 08/11/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: Bromofluorobenzene 0.510 0.500 102 70-130 Surrogate: 1,2-Dichloroethane-d4 0.505 0.500 101 70-130 0.500 94.4 70-130 Surrogate: Toluene-d8 0.472 LCS (2332090-BS1) Prepared: 08/10/23 Analyzed: 08/11/23 2.42 0.0250 2.50 96.8 70-130 Benzene 70-130 1.98 2.50 79.1 0.0250 Ethylbenzene Toluene 1.95 0.0250 2.50 77.8 70-130 1.91 2.50 76.4 70-130 0.0250 o-Xylene 3.74 74.8 5.00 70-130 p,m-Xylene 0.0500 5.65 0.0250 7.50 75.3 70-130 Total Xylenes 97.5 Surrogate: Bromofluorobenzene 0.488 0.500 70-130 101 70-130 0.500

0.506		0.500		101	70-130				
0.465		0.500		92.9	70-130				
			Source:	E308064-0	)1	Prepared: 08	3/10/23	Analyzed: 08	3/11/23
2.75	0.0250	2.50	ND	110	48-131				
2.26	0.0250	2.50	ND	90.5	45-135				
2.23	0.0250	2.50	ND	89.3	48-130				
2.17	0.0250	2.50	ND	86.7	43-135				
4.23	0.0500	5.00	ND	84.5	43-135				
6.39	0.0250	7.50	ND	85.3	43-135				
0.480		0.500		96.0	70-130				
0.509		0.500		102	70-130				
0.465		0.500		92.9	70-130				
0.465		0.500	Source:	92.9 <b>E308064-</b> 0		Prepared: 08	3/10/23	Analyzed: 08	3/11/23
2.74	0.0250	2.50	Source:			Prepared: 08	3/10/23	Analyzed: 08	3/11/23
	0.0250 0.0250			E308064-0	01			Analyzed: 08	3/11/23
2.74		2.50	ND	E308064-0	48-131	0.310	23	Analyzed: 08	5/11/23
2.74 2.29	0.0250	2.50 2.50	ND ND	E308064-0	48-131 45-135	0.310 1.21	23 27	Analyzed: 08	:/11/23
2.74 2.29 2.27	0.0250 0.0250	2.50 2.50 2.50	ND ND ND	110 91.6 90.9	48-131 45-135 48-130	0.310 1.21 1.82	23 27 24	Analyzed: 08	:/11/23
	2.75 2.26 2.23 2.17 4.23 6.39 0.480 0.509	2.75     0.0250       2.26     0.0250       2.23     0.0250       2.17     0.0250       4.23     0.0500       6.39     0.0250       0.480     0.509	0.465     0.500       2.75     0.0250     2.50       2.26     0.0250     2.50       2.23     0.0250     2.50       2.17     0.0250     2.50       4.23     0.0500     5.00       6.39     0.0250     7.50       0.480     0.500       0.509     0.500	0.465         0.500           Source:           2.75         0.0250         2.50         ND           2.26         0.0250         2.50         ND           2.23         0.0250         2.50         ND           2.17         0.0250         2.50         ND           4.23         0.0500         5.00         ND           6.39         0.0250         7.50         ND           0.480         0.500           0.509         0.500	0.465         0.500         92.9           Source: E308064-0           2.75         0.0250         2.50         ND         110           2.26         0.0250         2.50         ND         90.5           2.23         0.0250         2.50         ND         89.3           2.17         0.0250         2.50         ND         86.7           4.23         0.0500         5.00         ND         84.5           6.39         0.0250         7.50         ND         85.3           0.480         0.500         96.0           0.509         0.500         102	0.465         0.500         92.9         70-130           Source: E308064-01           2.75         0.0250         2.50         ND         110         48-131           2.26         0.0250         2.50         ND         90.5         45-135           2.23         0.0250         2.50         ND         89.3         48-130           2.17         0.0250         2.50         ND         86.7         43-135           4.23         0.0500         5.00         ND         84.5         43-135           6.39         0.0250         7.50         ND         85.3         43-135           0.480         0.500         96.0         70-130           0.509         0.500         102         70-130	Source: E308064-01         Prepared: 08           2.75         0.0250         2.50         ND         110         48-131           2.26         0.0250         2.50         ND         90.5         45-135           2.23         0.0250         2.50         ND         89.3         48-130           2.17         0.0250         2.50         ND         86.7         43-135           4.23         0.0500         5.00         ND         84.5         43-135           6.39         0.0250         7.50         ND         85.3         43-135           0.480         0.500         96.0         70-130           0.509         0.500         102         70-130	0.465         0.500         92.9         70-130           Source: E308064-01         Prepared: 08/10/23           2.75         0.0250         2.50         ND         110         48-131           2.26         0.0250         2.50         ND         89.3         48-130           2.23         0.0250         2.50         ND         86.7         43-135           2.17         0.0250         2.50         ND         86.7         43-135           4.23         0.0500         5.00         ND         84.5         43-135           6.39         0.0250         7.50         ND         85.3         43-135           0.480         0.500         96.0         70-130           0.509         0.500         102         70-130	Source: E308064-01         Prepared: 08/10/23         Analyzed: 08           2.75         0.0250         2.50         ND         110         48-131           2.26         0.0250         2.50         ND         90.5         45-135           2.23         0.0250         2.50         ND         89.3         48-130           2.17         0.0250         2.50         ND         86.7         43-135           4.23         0.0500         5.00         ND         84.5         43-135           6.39         0.0250         7.50         ND         85.3         43-135           0.480         0.500         96.0         70-130           0.509         0.500         102         70-130

0.500

0.500

0.500

96.2

100

94.5

70-130

70-130

70-130

0.481

0.500

0.473

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8

WPX Energy - CarlsbadProject Name:RDX 9 #004Reported:5315 Buena Vista DrProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno8/15/2023 11:31:37AM

Nonhalogenated	<b>Organics</b>	by EPA	8015D -	GRO

Analyst: IY

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

	Result	Limit	Level	Result	Rec	Limits	KPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2332090-BLK1)							Prepared: 08	3/10/23 Ana	lyzed: 08/11/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.472		0.500		94.4	70-130			
LCS (2332090-BS2)							Prepared: 08	3/10/23 Ana	lyzed: 08/11/23
Gasoline Range Organics (C6-C10)	49.9	20.0	50.0		99.8	70-130	·		
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.3	70-130			
Surrogate: Toluene-d8	0.468		0.500		93.5	70-130			
Matrix Spike (2332090-MS2)				Source:	E308064-	01	Prepared: 08	3/10/23 Ana	lyzed: 08/11/23
Gasoline Range Organics (C6-C10)	49.4	20.0	50.0	ND	98.7	70-130			
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.467		0.500		93.4	70-130			
Matrix Spike Dup (2332090-MSD2)				Source:	E308064-	01	Prepared: 08	3/10/23 Ana	lyzed: 08/11/23
Gasoline Range Organics (C6-C10)	49.5	20.0	50.0	ND	99.0	70-130	0.298	20	
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.467		0.500		93.4	70-130			



WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/15/2023 11:31:37AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno	1			8/1	5/2023 11:31:37AM
	Nonha	logenated Or	ganics by	EPA 80151	D - 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 (2332068-BLK1)							Prepared: 0	8/09/23 Anal	lyzed: 08/11/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.2		50.0		100	50-200			
LCS (2332068-BS1)							Prepared: 0	8/09/23 Anal	lyzed: 08/11/23
Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: n-Nonane	48.7		50.0		97.4	50-200			
Matrix Spike (2332068-MS1)				Source:	E308059-	05	Prepared: 0	8/09/23 Anal	lyzed: 08/11/23
Diesel Range Organics (C10-C28)	251	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	39.3		50.0		78.5	50-200			
Matrix Spike Dup (2332068-MSD1)				Source:	E308059-	05	Prepared: 0	8/09/23 Anal	lyzed: 08/12/23
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132	3.24	20	
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			



Chloride

## **QC Summary Data**

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 9 #004 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager	: G	ilbert Moreno					8/15/2023 11:31:37AM
		Anions	by EPA	300.0/9056 <i>A</i>	1				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2332082-BLK1)							Prepared: 0	8/10/23 A	analyzed: 08/12/23
Chloride	ND	20.0							
LCS (2332082-BS1)							Prepared: 0	8/10/23 A	analyzed: 08/12/23
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2332082-MS1)				Source:	E308061-	)1	Prepared: 0	8/10/23 A	analyzed: 08/12/23
Chloride	258	20.0	250	ND	103	80-120			
Matrix Spike Dup (2332082-MSD1)				Source:	E308061-	01	Prepared: 0	8/10/23 A	analyzed: 08/12/23

250

20.0

104

80-120

0.947

20

#### QC Summary Report Comment:

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



## **Definitions and Notes**

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/15/23 11:31

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	formatio	y Permiar	ı, LLC.			Bill To		30		La	b Us	e Onl	٧	Hes				TA	T	EPA	Program
	RDX 9 #00				Att	ention: Jim Raley		Lab	WO		-	Job N	uml	ber		1D	2D	3D	Standar		
roject N	lanager: (	Gilbert M	oreno			dress: 5315 Buena Vista Dr.		F:	308	306	4	DIO	58	-00	07				5 Day TA		
Address:	13000 W	County R	d 100		City	y, State, Zip: Carlsbad, NM,	88220		200		-	Analys	is an	nd Me	thod						RCR
City, Stat	e, Zip_Od	essa,TX,	79765			one: 575-885-7502			þ			Ť	T								
hone: 8	32-541-7	719			Em	ail: jim.raley@dvn.com			SRO SRO											State	
mail: De	von-tean	n@eteche	env.com			3S/WO: 21181921			3/0	п		200	0.		u o	Σ	- 1		NM (	OUTA	Z TX
Collected	by: Gilbe	rt Moren	0		Inc	ident ID: nAB1803254347		7	JQ/O	802	8260	3010	300		Ani	- 1		¥	×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Numbe	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	верос		GDOC		Remarl	ks
9:10	8.8.23	S	1			PH07			"						Ū	Х					
9:20	8.8.23	S	1			PH07	2									х					
Addition	al Instruc	tions:	Qu	gird																	
						re that tampering with or intentionall	y mislabelling the s	ample l	ocation	١,	- 1									day they are sar subsequent days	
			d fraud and Date	may be grounds fo		I	Inata		Trime				Anno TAN								
	by: (Sign		8.9	9.23	7:30	Received by: (Signature)		23	O	730		Recei	ived	on i	ce:		) N	e On	iy		
Mcl		unja			515	Received by: (Signature)	-	1.23	7	100		<u>T1</u>				T2			<u>T3</u>		
Relinquishe	ed by: (Signa	1000	Date	9.23 Time		Reedived by: (Signature)	a 8/10	23	Time	000	<b>7</b>	AVG	Tem	o °C	-,	1					



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Page 146

Environment of the analysis of the ort.

Project	Informatio

Chain of Custody	ody
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Page	1	of	1
			-

Received by OCD: 8/30/2023 9:59:38 AM

Client: WPX Energy Permian, LLC.						Bill To			Lab Use Only						TAT EPA Program								
Project: RDX 9 #004						Attention: Jim Raley			Lab WO#			Job Number			1D	1D 2D 3D S			andard	CWA	SDWA		
Project Manager: Gilbert Moreno						Address: 5315 Buena Vista Dr.			E.308064				01058-0007						5 D	ay TAT			
Address: 13000 W County Rd 100						City, State, Zip: Carlsbad, NM, 88220				At					Analysis and Method								RCRA
City, State, Zip_Odessa,TX, 79765						Phone: 575-885-7502				þ													
Phone: 832-541-7719						Email: jim.raley@dvn.com				TPH GRO/DRO/ORO by 8015	8021	8260				Anion	NM		Ϋ́	N		State	
Email: Devon-team@etechenv.com						WBS/WO: 21181921							8.0	0.0							NM CO	UT AZ	TX
Collected by: Gilbert Moreno						Incident ID: nAB1803254347			=				010	300							~		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number	Depth(ft.) TPH GRO/I		BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	верос		2009			Remarks	
9:10	8.8.23	S	1	PH07 0.51			1									х				Added	1 de	pths	
9:20	8.8.23	S	1	PH07 /			2	*								х				Der	er Client		
																					8/10	63	CM
Vi in				1																			
Dugar			0																				
				1																			
_																							
Additional Instructions:																							
	I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  Sampled by: GM  Sampled by: GM  Sampled by: GM											led or											
Relinquished by: (Signature) Date Time 8.9.23 09					Time 09:3			Bate 90	23 Time		730	,	Received on ice:			e:	Lab Use Only			ily			
Michelle Censor 09.23 1010 (8)					Received by: (Signature)	Pate Q	. 23 / Too				T1				TZ				T3				
Relinquished by: (Signature) Date 3-9-23 Time Recoived by: Rignature) Recoived by: Rignature) Recoived by: Rignature)						8/10/2	0/23 7:00 AVG Temp °C 4																
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other								Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA															
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the											of the												
								above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.															



Printed: 8/10/2023 1:31:13PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

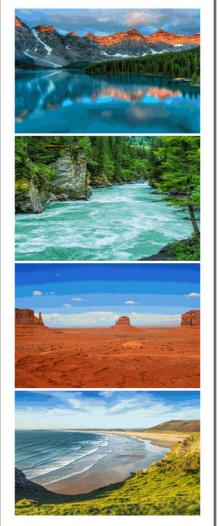
Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	08/10/23 07	<b>':00</b>	Work (	Order ID:	E308064
Phone:	(539) 573-4018	Date Logged In:	08/09/23 15	:19	Loggeo	l In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	08/16/23 17	7:00 (4 day TAT)			
Chain of	Custody (COC)						
	e sample ID match the COC?		No				
	e number of samples per sampling site location mat	ch the COC	Yes				
3. Were sa	imples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	c COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	eumen <u>e</u>	<u> </u>		
	I samples received within holding time?	•	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.			,	<u> </u>	Comments	s/Resolution
	urn Around Time (TAT)				Cample ID on ac	ntainar	a received did not
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		-		s received did not
Sample C					match sample IL	s listed	d on COC. Client
	ample cooler received?		Yes		asked to add the	depths	to the COC to
8. If yes, v	was cooler received in good condition?		Yes		match IDs on co	ntainers	<b>.</b>
9. Was the	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				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
		temperature. 4	<u>~</u>				
Sample C	ueous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers'	)	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab		iers conceteu.	103				
	field sample labels filled out with the minimum info	rmation:					
	imple ID?	mation.	Yes				
	ate/Time Collected?		Yes	l			
Co	ollectors name?		Yes				
Sample P	<u>reservation</u>						
21. Does t	the COC or field labels indicate the samples were pr	eserved?	No				
	mple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
<u>Multipha</u>	se Sample Matrix						
26. Does t	he sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontra	act Laboratory						
	mples required to get sent to a subcontract laborator	rv?	No				
	subcontract laboratory specified by the client and it	-		Subcontract Lab	· NA		
	• • •			540001111401 240			
Chent In	<u>struction</u>						

Date

Report to:
Gilbert Moreno



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 9 #004

Work Order: E308065

Job Number: 01058-0007

Received: 8/10/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/15/23

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: 8/15/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 9 #004

Workorder: E308065

Date Received: 8/10/2023 7:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/10/2023 7:00:00AM, under the Project Name: RDX 9 #004.

The analytical test results summarized in this report with the Project Name: RDX 9 #004 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

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Raina Schwanz

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## **Sample Summary**

_				
ſ	WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Reported:
ı	5315 Buena Vista Dr	Project Number:	01058-0007	Reported.
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/15/23 11:35

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
PH06 0.5'	E308065-01A Soil	08/08/23	08/10/23	Glass Jar, 2 oz.
PH06 1'	E308065-02A Soil	08/08/23	08/10/23	Glass Jar, 2 oz.



# **Sample Data**

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/15/2023 11:35:29AM

## PH06 0.5' E308065-01

		2000000 01					
Analyte	Result	Reporting Limit	Dilu	ution	Prepared	Analyzed	Notes
				Analyst:		Maryzed	Batch: 2332090
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Anaryst		00/11/22	Batch: 2332090
Benzene	ND	0.0250	]		08/10/23	08/11/23	
Ethylbenzene	ND	0.0250	]	l	08/10/23	08/11/23	
Toluene	ND	0.0250	1	1	08/10/23	08/11/23	
o-Xylene	ND	0.0250	1	l	08/10/23	08/11/23	
p,m-Xylene	ND	0.0500	1	1	08/10/23	08/11/23	
Total Xylenes	ND	0.0250	1	1	08/10/23	08/11/23	
Surrogate: Bromofluorobenzene		99.1 %	70-130		08/10/23	08/11/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		08/10/23	08/11/23	
Surrogate: Toluene-d8		94.3 %	70-130		08/10/23	08/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2332090
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/10/23	08/11/23	
Surrogate: Bromofluorobenzene		99.1 %	70-130		08/10/23	08/11/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		08/10/23	08/11/23	
Surrogate: Toluene-d8		94.3 %	70-130		08/10/23	08/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2332068
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/09/23	08/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/09/23	08/12/23	
Surrogate: n-Nonane		98.0 %	50-200		08/09/23	08/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2332082
Chloride	ND	20.0	1	1	08/10/23	08/12/23	



# **Sample Data**

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/15/2023 11:35:29AM

## PH06 1'

### E308065-02

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY			Batch: 2332090
Benzene	ND	0.0250	1		08/10/23	08/11/23	
Ethylbenzene	ND	0.0250	1		08/10/23	08/11/23	
Toluene	ND	0.0250	1		08/10/23	08/11/23	
o-Xylene	ND	0.0250	1		08/10/23	08/11/23	
p,m-Xylene	ND	0.0500	1		08/10/23	08/11/23	
Total Xylenes	ND	0.0250	1		08/10/23	08/11/23	
Surrogate: Bromofluorobenzene		98.4 %	70-130		08/10/23	08/11/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		08/10/23	08/11/23	
Surrogate: Toluene-d8		93.2 %	70-130		08/10/23	08/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY			Batch: 2332090
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/10/23	08/11/23	
Surrogate: Bromofluorobenzene		98.4 %	70-130		08/10/23	08/11/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		08/10/23	08/11/23	
Surrogate: Toluene-d8		93.2 %	70-130		08/10/23	08/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: KM	[		Batch: 2332068
Diesel Range Organics (C10-C28)	ND	25.0	1		08/09/23	08/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1		08/09/23	08/12/23	
Surrogate: n-Nonane		91.3 %	50-200		08/09/23	08/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: BA			Batch: 2332082
7 HII OH S D Y E1 11 500:0/ > 03011							

## **QC Summary Data**

WPX Energy - Carlsbad Project Name: RDX 9 #004 Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 8/15/2023 11:35:29AM

Volatile Organic Compounds by EPA 8260B Analyst: IY

Volatile Organic Compounds by EPA 8260B									Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2332090-BLK1)							Prepared: 0	8/10/23 Anal	lyzed: 08/11/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.472		0.500		94.4	70-130			
LCS (2332090-BS1)							Prepared: 0	8/10/23 Anal	lyzed: 08/11/23
Benzene	2.42	0.0250	2.50		96.8	70-130			
Ethylbenzene	1.98	0.0250	2.50		79.1	70-130			
Toluene	1.95	0.0250	2.50		77.8	70-130			
o-Xylene	1.91	0.0250	2.50		76.4	70-130			
p,m-Xylene	3.74	0.0500	5.00		74.8	70-130			
Total Xylenes	5.65	0.0250	7.50		75.3	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.465		0.500		92.9	70-130			
Matrix Spike (2332090-MS1)				Source:	E308064-	01	Prepared: 0	8/10/23 Anal	lyzed: 08/11/23
Benzene	2.75	0.0250	2.50	ND	110	48-131			
Ethylbenzene	2.26	0.0250	2.50	ND	90.5	45-135			
Toluene	2.23	0.0250	2.50	ND	89.3	48-130			
o-Xylene	2.17	0.0250	2.50	ND	86.7	43-135			
p,m-Xylene	4.23	0.0500	5.00	ND	84.5	43-135			
Total Xylenes	6.39	0.0250	7.50	ND	85.3	43-135			
Surrogate: Bromofluorobenzene	0.480		0.500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.465		0.500		92.9	70-130			
Matrix Spike Dup (2332090-MSD1)				Source:	E308064-	01	Prepared: 0	8/10/23 Anal	lyzed: 08/11/23
Benzene	2.74	0.0250	2.50	ND	110	48-131	0.310	23	
Ethylbenzene	2.29	0.0250	2.50	ND	91.6	45-135	1.21	27	
Toluene	2.27	0.0250	2.50	ND	90.9	48-130	1.82	24	
o-Xylene	2.21	0.0250	2.50	ND	88.2	43-135	1.76	27	
p,m-Xylene	4.30	0.0500	5.00	ND	86.0	43-135	1.69	27	
Total Xylenes	6.50	0.0250	7.50	ND	86.7	43-135	1.71	27	
Surrogate: Bromofluorobenzene	0.481		0.500		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
			0.500		0.45	<b>50 120</b>			



0.500

0.473

94.5

70-130

Surrogate: Toluene-d8

# **QC Summary Data**

WPX Energy - Carlsbad Project Name: RDX 9 #004 Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 8/15/2023 11:35:29AM

Nonhalogenated Organics	es by EPA 8015D - GRO
-------------------------	-----------------------

Analyst: IY

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

	Result	Limit	Level	Result	Rec	Limits	KPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2332090-BLK1)							Prepared: 08	3/10/23 Ana	lyzed: 08/11/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.472		0.500		94.4	70-130			
LCS (2332090-BS2)							Prepared: 08	3/10/23 Ana	lyzed: 08/11/23
Gasoline Range Organics (C6-C10)	49.9	20.0	50.0		99.8	70-130	·		
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.3	70-130			
Surrogate: Toluene-d8	0.468		0.500		93.5	70-130			
Matrix Spike (2332090-MS2)				Source:	E308064-	01	Prepared: 08	3/10/23 Ana	lyzed: 08/11/23
Gasoline Range Organics (C6-C10)	49.4	20.0	50.0	ND	98.7	70-130			
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.467		0.500		93.4	70-130			
Matrix Spike Dup (2332090-MSD2)				Source:	E308064-	01	Prepared: 08	3/10/23 Ana	lyzed: 08/11/23
Gasoline Range Organics (C6-C10)	49.5	20.0	50.0	ND	99.0	70-130	0.298	20	
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.467		0.500		93.4	70-130			



# **QC Summary Data**

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/15/2023 11:35:29AM

Analyst: KM
Notes
alyzed: 08/11/23
alyzed: 08/11/23
alyzed: 08/11/23
alyzed: 08/12/23
a

Matrix Spike Dup (2332082-MSD1)

Chloride

260

20.0

## **QC Summary Data**

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number		DX 9 #004 1058-0007					Reported:		
Carlsbad NM, 88220		Project Manager: Gilbert Moreno						8/15/2023 11:35:29AM			
		Anions	by EPA 3	300.0/9056 <i>£</i>	A				Analyst: BA		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2332082-BLK1)							Prepared: 0	8/10/23 A	nalyzed: 08/12/23		
Chloride	ND	20.0									
LCS (2332082-BS1)							Prepared: 0	8/10/23 A	nalyzed: 08/12/23		
Chloride	259	20.0	250		104	90-110					
Matrix Spike (2332082-MS1)				Source:	E308061-	01	Prepared: 0	8/10/23 A	nalyzed: 08/12/23		
Chloride	258	20.0	250	ND	103	80-120					

250

Source: E308061-01

104

80-120

0.947

ND

#### 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.



Prepared: 08/10/23 Analyzed: 08/12/23

20

## **Definitions and Notes**

WPX Energy - Carlsbad	Project Name:	RDX 9 #004	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/15/23 11:35

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.



Receive
d by
OCD:
8/30/2023
3 9:59:38 AM

lient: W	PX Fnerg	y Permia	n IIC			Bill To				1:	h Hs	e On	lv					TA	Т	EPA P	rogram
	RDX 9 #00		11, EEC.			Attention: Jim Raley		Lab Use Only Lab WO# Job Numb E 308005 0/058					her		1D	2D	3D	Standard	CWA	SDW	
		Gilbert N	loreno			Address: 5315 Buena Vista Dr.		F	308	NO.	15 210		58	M	7	10	20	30	5 Day TAT	CVA	3000
		County I				City, State, Zip: Carlsbad, NM, 88	3220	LC	000	00.		Analy	sis ar	nd Me	ethod	Ī		L			RCR
		lessa,TX,				hone: 575-885-7502			ρ́									П			20000000
	32-541-7				E	mail: jim.raley@dvn.com	100		NO.											State	
mail: De	von-tear	n@etech	env.com		1 101	WBS/WO: 21181921			30/0	н	_		0.0	h 1	no	Σ			NM CO	UT AZ	TX
Collected	by: Gilbe	ert Morer	าด		I	ncident ID: nAB1803254347	275	=	JQ/C	802	8260	5010	300		Ani			¥	×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	Depth(ft.)	ТРН GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC		GDOC		Remarks	
8:50	8.8.23	S	1			PH06	1									X					
9:00	8.8.23	S	1			PH06	2									Х					
							,								7 1/2						
								_		-	-										
	*************		1		_/																
			1/9	in																	
			0																		
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Chain of Custody

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and the second second	RDX 9 #00	Control of the Contro	MEERS			Atte	ntion: Jim R	aley		Lab	WO#	1		Job	Num	ber		1D	2D	3D	Sta	ndard	CWA	SDWA
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above sam	iples is appl	icable only	to those sa	imples recei	ved by t	he labora	atory with this	COC. The liability of the	laboratory i	s limit	ted to	the a	moun	t paid	for or	n the r	report							



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envirotech Inc.

Printed: 8/10/2023 1:32:01PM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	08/10/23 0	7:00		Work Order ID:	E308065
Phone:	(539) 573-4018	Date Logged In:	08/09/23 1	5:20		Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	08/16/23 1	7:00 (4 day TAT)			
1. Does th 2. Does th 3. Were sa	Custody (COC)  the sample ID match the COC?  the number of samples per sampling site location management of the country of the		No Yes Yes Yes	Carrier: <u>C</u>	<u>Courier</u>		
		sied analyses:					
	Il samples received within holding time?  Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssiurn Around Time (TAT)		Yes	ı			s/Resolution
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Sample ID	on container	s received did not
Sample C	<u>cooler</u>				match sam	ple IDs listed	d on COC. Client
7. Was a s	ample cooler received?		Yes		asked to ad	ld the depths	to the COC to
8. If yes, v	was cooler received in good condition?		Yes		l	on containers	
9. Was the	e sample(s) received intact, i.e., not broken?		Yes		maten 125	on container	)•
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample		Yes				
Sample C	<u>Container</u>						
14. Are ac	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
18. Are no	on-VOC samples collected in the correct containers	?	Yes				
19. Is the a	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Sa D	tel field sample labels filled out with the minimum info tample ID? ate/Time Collected? follectors name?	ormation:	Yes Yes Yes				
Sample P	reservation		103				
21. Does 1	the COC or field labels indicate the samples were pr	reserved?	No				
22. Are sa	imple(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved n	netals?	No				
<u>Mul</u> tipha	se Sample Matrix						
	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr 28. Are sa	act Laboratory  Imples required to get sent to a subcontract laborato subcontract laboratory specified by the client and it	ry?	No	Subcontract Lab	o: NA		
Client In	struction						

Date

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

# **APPENDIX G**

# **NMOCD Notifications**

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



#### **Erick Herrera**

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

**Sent:** Friday, June 16, 2023 3:37 PM

To: Erick Herrera

Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD

**Subject:** RE: [EXTERNAL] WPX Site Sampling Activity Update (6/20 - 6/23)

Erick,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | <u>Jocelyn.Harimon@emnrd.nm.gov</u>



From: Erick Herrera <erick@etechenv.com> Sent: Thursday, June 15, 2023 3:14 PM

**To:** Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>; blm\_nm\_cfo\_spill@blm.gov **Cc:** Raley, Jim < jim.raley@dvn.com>; Devon-Team < Devon-Team@etechenv.com>

**Subject:** [EXTERNAL] WPX Site Sampling Activity Update (6/20 - 6/23)

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

WPX anticipates conducting confirmation soil sampling activities at the following sites between June 20 – June 23, 2023:

Site Name: North Brushy PW Line

Incident Numbers: nAPP2231126594 & nAPP2312845934

Site Name: RDX 9#004

Incident Number: nAB1803254347

API: 30-015-40180

Site Name: RDX Federal COM 28 #009H Incident Number: nAB1632648516

API: 30-015-43294

Site Name: Holly A Federal #006

Incident Number: nAPP2116548791

API: 30-015-25331

Site Name: Ross Draw #012

Incident Numbers: nHMP1407235518 and nAPP2315142829

API: 30-015-24793

Thank you,

**Erick Herrera** Staff Geologist



Work: (432) 305-6416 Cell: (281) 777-4152

#### **Erick Herrera**

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

**Sent:** Wednesday, July 19, 2023 4:55 PM

**To:** Erick Herrera

Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD

**Subject:** RE: [EXTERNAL] WPX Site Sampling Activity Updates (7/24-7/28)

Good afternoon Erick,

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

Thank you,

Shelly

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

From: Erick Herrera <erick@etechenv.com> Sent: Wednesday, July 19, 2023 3:36 PM

**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm\_nm\_cfo\_spill@blm.gov **Cc:** Raley, Jim <jim.raley@dvn.com>; Devon-Team <Devon-Team@etechenv.com>

**Subject:** [EXTERNAL] WPX Site Sampling Activity Updates (7/24-7/28)

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

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between July 24 through July 28, 2023:

Proposed Date: July 24, 2023, July 25, 2023, July 26, 2023, July 27, 2023, July 28, 2023,

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDX 9-4

Incident Number: nAB1803254347

API: 30-015-40180

Proposed Dates: July 24, 2023, July 25, 2023, July 26, 2023, July 27, 2023, July 28, 2023,

Proposed Timeframe: 0800 – 1700 hrs. Site Name: North Brushy PW Line

Incident Numbers: nAPP2231126594 & nAPP2312845934

Thank you,

**Erick Herrera** Staff Geologist



Work: (432) 305-6416 Cell: (281) 777-4152

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

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

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

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** 

CONDITIONS

Action 259420

#### **CONDITIONS**

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	259420
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
amaxwel	I None	9/1/2023