District I 1625 N. French District II 1625 N. French District III 1000 Rio Brazos District III 1000 Rio Brazos District IV 1220 S. St. Franc NAB 16 Name of Co Address Facility Nar Surface Ow	Dr., Hobbs, N Artesia, NM Road, Aztec cis Dr., Santa <b>512 45</b> <u>mpany</u> 210 Park ne RDX	IM 88240 88210 , NM 87410 Fe, NM 87505 <b>5   38</b> RKI E&P, L Ave. – Ste. 15-8	Rele	St Energy Mi Oil ( 1220	nerals a Conserv South anta Fe cation	vation Div St. Franc , NM 875 and Co OPERA Contact Felephone N facility Typ	ico I Resource vision is Dr. 05 <b>prrectiv</b> FOR Taylor Jo 40. 405-9	ARTE S MA RE RE ACTI	Initia	T I	Revised A ate Dist ith 19.1	Form C-1 August 8, 2	e in AC.
						OF RE							
Unit Letter	Section	Township	Range	Feet from the	North/S	South Line	Feet from	the Ea	st/West Line	County			
L	156	265	30E	2310	South I	Line	330	w	est Line	Eddy			
Type of Rele Source of Re Was Immedi	lease Welll	nead Stuffing Biven?	Box Pack	ng ] No 🗌 Not R	equired	Date and F 4/28/15 – J 1f YES, Tc		rrence	Date and	Recovered Hour of Di - 9:00 AM	scovery		
By Whom? Was a Water			Yes 🗵			Date and H If YES, Vo		ting the V	Watercourse.	. <u>.                                   </u>			
	water was	em and Reme released beca		n Taken.* ead stuffing box p	packing fa	ailed. Install	ing a high p	ressure ki	ll on wellhead	in effort to	prevent	this	
		and Cleanup Affect		ken.* d soil is being re	moved an	nd disposed c	f.						
regulations a public health should their o or the enviro	II operators or the environment operations homent. In a	are required t ronment. The ave failed to	o report and acceptand adequately OCD accept	e is true and com nd/or file certain ce of a C-141 rep v investigate and btance of a C-141	release no ort by the remediate	otifications a NMOCD m e contaminat	nd perform arked as "F ion that pose e the operat	corrective nal Repo a threat to or of resp	actions for rel rt" does not rel to ground wate onsibility for c	leases which ieve the op r, surface w compliance	n may e erator o /ater, hu with anj	ndanger f liability ıman healt	th
Signature:	ayer e: Taylor Jo	J <i>M</i> ones				Approved by			<u>RVATION</u> ialist:	DIVISI			-
Title: EHS S	¥					Approval Da	te: 5 4	15	Expiration	Date: N	A		

rkixp.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelingered
Phone: 405-996-5782	SUBMIT REMEDIATION PROPOSAL NO
s If Necessary	LATER THAN: 114115 2RP-2984
	rkixp.com Phone: 405-996-5782 s If Necessary

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

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

Incident ID	nAB1512455138
District RP	
Facility ID	
Application ID	

### **Release Notification**

### **Responsible Party**

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: Jim.Raley@dvn.com	Incident # (assigned by OCD): nAB1512455138
Contact mailing address: 5315 Buena Vista Drive, Carlsbad NM, 88	220

#### **Location of Release Source**

Latitude		32.0416445583352	2	Longitude	-103.876658799956	
			(NAD 83 in dec	cimal degrees to 5 decimal places)		
Site Name: R	DX 15-8			Site Type: Well Pac	l	
Date Release	Date Release Discovered: 4/28/2015				0-015-36758	
Unit Letter	Section	Townshin	Danaa	Country		
Unit Letter	Section	Township	Range	County		
L	15	26S	30E	Eddy		

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

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)					
Crude Oil/Produced Water	Volume Released (bbls): 28	Volume Recovered (bbls): 25			
Produced Water	Volume Released (bbls):	Volume Recovered (bbls):			
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No			
Condensate	Volume Released (bbls)	Volume Recovered (bbls)			
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)			
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)			

Cause of Release:

Oil/Produced water was released because wellhead stuffing box packing failed. Installing a high pressure kill on wellhead in effort to prevent this occurrence in the future.

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

Page	2
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Oil Conservation Division

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Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?			
release as defined by				
19.15.29.7(A) NMAC?	Unauthorized release of a volume, excluding gases, of 25 barrels or more.			
Yes 🗌 No				
If YES, was immediate no	btice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?			
Immediate notice was given by Taylor Jones, to Heather Patterson "NMOCD" and Zachary Laird "BLM" via email on May 1, 2015.				

### **Initial Response**

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

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

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

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

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

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

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

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

Printed Name: Jim Raley	Title: Environmental Professional
Signature:	Date:
email: Jim.Raley@dvn.com	Telephone: <u>575-689-7597</u>
OCD Only	
Received by:	Date:

Received by OCD: 9/29/2023 1:08:59 PM State of New Mexico

**Oil Conservation Division** 

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Incident ID	nAB1512455138
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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>&gt;100 (ft bgs)</u>
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data

Page 3

- Data table of soil contaminant concentration data
- $\boxtimes$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

<b>Received by OCD: 9/2</b> Form C-141 Page 4	9/2023 1:08:59 PM State of New Mexico Oil Conservation Division			Incident ID District RP Facility ID Application ID	Page 5 of 182           nAB1512455138
regulations all operator public health or the en- failed to adequately inv addition, OCD accepta and/or regulations.	e information given above is true and complete to the rs are required to report and/or file certain release no vironment. The acceptance of a C-141 report by the vestigate and remediate contamination that pose a the nce of a C-141 report does not relieve the operator of	tifications OCD doe reat to gro f respons	s and perform co s not relieve the bundwater, surfa ibility for compl	prective actions for rele operator of liability sho ce water, human health iance with any other fec	ases which may endanger ould their operations have or the environment. In
	Raley	Title:	Environment	al Professional	
Signature:	ly	Date:	9/29/2023	_	
email: Jim.Raley@	)dvn.com	Teleph	one: <u>575-689</u>	9-7597	
OCD Only					
Received by:			Date:		

Page 6

Oil Conservation Division

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Incident ID	nAB1512455138
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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.

<b><u>Closure Report Attachment Checklist</u>:</b> Each of the following in	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for 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: <u>Environmental Professional</u>
OCD Only	
Received by:	Date:
	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: 10/17/2023
Closure Approved by: Ashley Maywell Printed Name: Ashley Maxwell	Title: Environmental Specialist



# **CLOSURE REQUEST REPORT**

**RDX 15-8** 

Eddy County, New Mexico Incident Number nAB1512455138

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

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

Released to Imaging: 10/17/2023 11:47:15 AM

#### **SYNOPSIS**

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Closure Request Report (CRR) detailing site assessment, delineation and excavation activities and subsequent soil sampling events associated with an inadvertent release of crude oil and produced water at the RDX 15-8 (Site). 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

The Site is located in Unit L, Section 15, Township 26 South, Range 30 East in Eddy County, New Mexico (32.0416445583352°, -103.876658799956°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1** in **Appendix A**).

On April 28, 2015, it was discovered that a wellhead stuffing box packing failed and resulted in the release of approximately 28 barrels (bbls) of crude oil and produced water to be released onto the well pad surface. A vacuum truck was dispatched to the Site and recovered approximately 25 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 May 1, 2015, and was subsequently assigned Incident Number nAB1512455138. The initial C-141 noted an incorrect Section in the legals and is corrected on the Final C-141 form. **Figure 2** in **Appendix A** depicts the observed release footprint, hereafter referred to as the Area of Concern (AOC). Shortly following the release, WPX excavated observed residual soil impacts concurrently with the repair of the wellhead stuffing box and installed a high pressure kill switch on the wellhead. Following wellhead stuffing box packing replacement operations, the excavation was backfilled and resurfaced to match the original well pad grade. Since initial response efforts, plugging and abandonment activities at the Site were completed in 2018.

#### 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.

Depth to ground water at the Site is estimated to be greater than 100 feet below ground surface (bgs), based off a nearby soil boring advanced by Talon LPE on behalf of WPX, located approximately 0.38 miles southwest of the Site on the RDX 16-25 well pad. Soil boring (MW-1) was advanced on December 10, 2020, via a truck mounted drill rig equipped with a hollow stem auger to a total depth of 110 feet bgs. No fluids were observed throughout the drilling process nor after a 72-hour observation period. The soil boring location may be referenced on **Figure 1** in **Appendix A.** Following the

observation period, the boring was plugged and abandoned according to the appropriate regulations. Referenced well logs are provided in **Appendix B**.

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 and estimated regional depth to groundwater at the Site, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria <sup>†</sup>
Chloride	Environmental Protection Agency (EPA) 300.0	20,000 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	2,500 mg/kg
TPH-Gasoline Range Organics (GRO) + TPH-Diesel Range Organics (DRO)	EPA 8021B	1,000 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

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

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

From July 12 through July 19, 2023, Etech conducted delineation activities to assess the presence or absence of residual soil impacts associated with the AOC. Five delineation potholes (PH01 through PH05) were advanced via hand auger and/or mechanical equipment within 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<sup>®</sup> chloride QuanTab<sup>®</sup> test strips. A total of 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.

#### **DELINEATION LABORATORY ANALYTICAL RESULTS**

Laboratory analytical results for all delineation soil samples indicated BTEX and TPH concentrations were below the applicable Site Closure Criteria and/or reclamation standard; however, chloride concentrations for all delineation soil samples exceeded the reclamation standard within the top 4 feet bgs. Laboratory analytical results are summarized in **Table 1** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**.

#### **EXCAVATION SOIL SAMPLING ACTIVITIES**

From July 20 through September 11, 2023, excavation activities were performed to address residual impacts according to delineation field screening and laboratory analytical results. Excavation activities were advanced 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 excavation floor and sidewalls. The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The samples were then handled and analyzed for COC's as previously described.

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 excavation was backfilled with clean, locally sourced soil and the Site was restored to "as close to its original state" as possible. The locations of confirmation excavation soil samples are shown in **Figure 3** in **Appendix A**. Photographic documentation of excavation and restoration activities is included in **Appendix D**.

#### **EXCAVATION LABORATORY ANALYTICAL RESULTS**

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

#### **CLOSURE REQUEST**

Based on laboratory analytical results for 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 meet the requirements set forth in NMAC 19.15.29.13 regulations 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 nAB1512455138 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 joseph@etechenv.com or Erick Herrera at (281) 777-4152 or erick@etechenv.com. **Appendix G** provides correspondence email notification receipts associated with the subject release.

Sincerely, Etech Environmental and Safety Solutions, Inc.

Erich H

Erick Herrera Staff Geologist

cc: Jim Raley, WPX New Mexico Oil Conservation Division Bureau of Land Management

ep & Ad

Joseph S. Hernandez Senior Managing Geologist

#### Appendices:

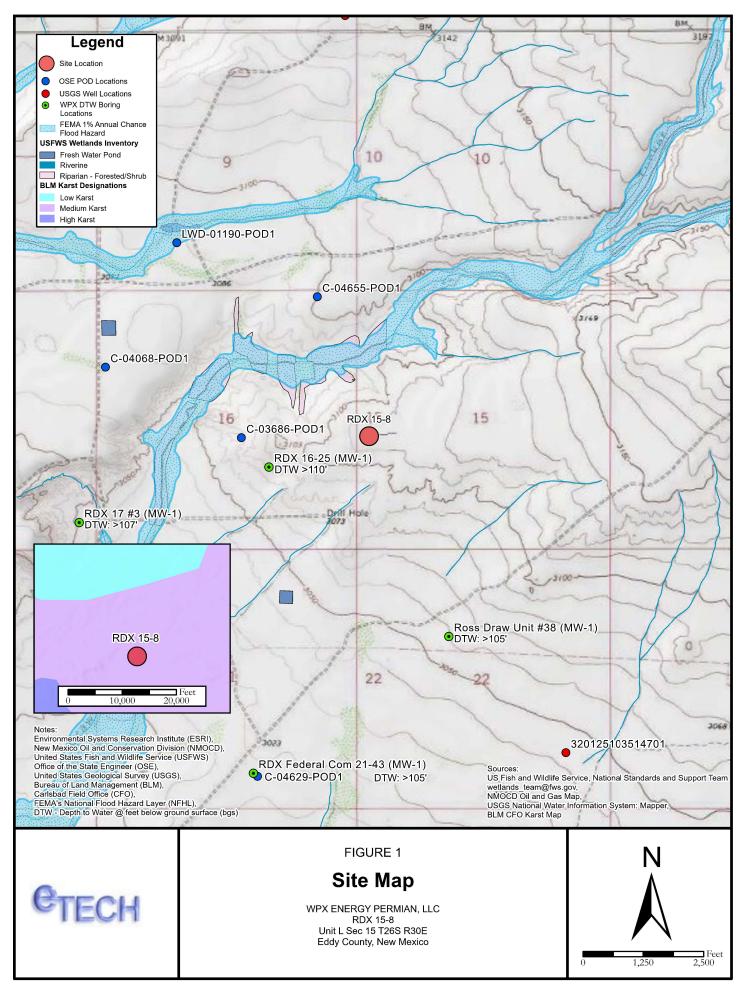
Appendix A:	Figure 1: Site Map
	Figure 2: Delineation Soil Sample Locations
	Figure 3: Excavation Soil Sample Locations
Appendix B:	Referenced Well Records
Appendix C:	Soil Sampling Logs
Appendix D:	Photographic Log
Appendix E:	Tables
Appendix F:	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix G:	NMOCD Notifications

## **APPENDIX A**

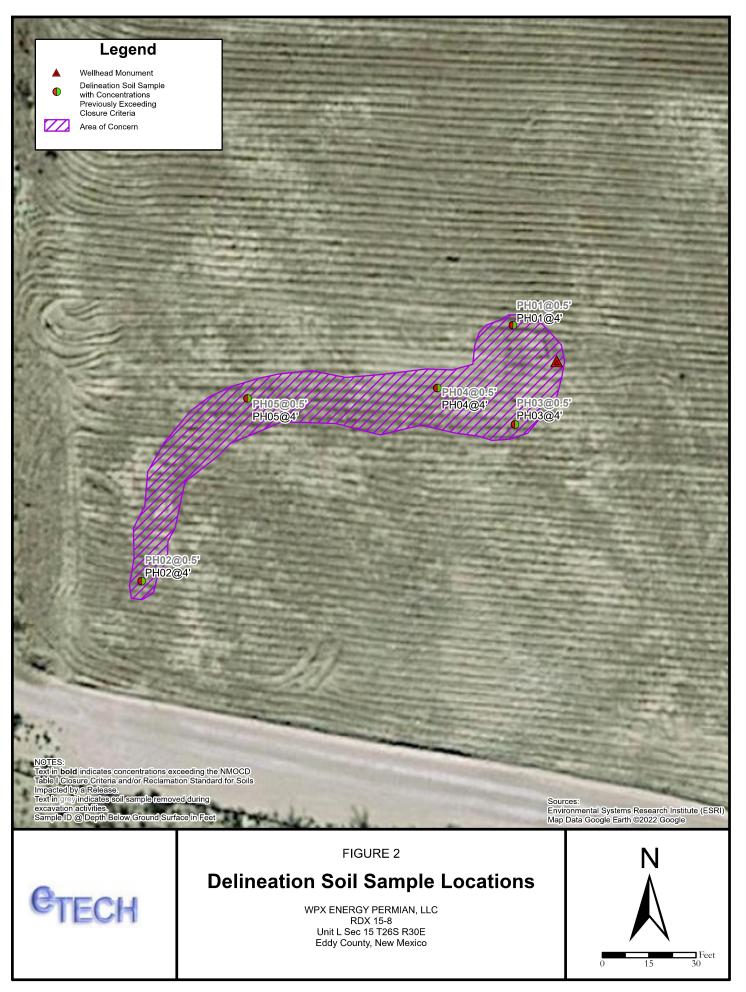
# Figures

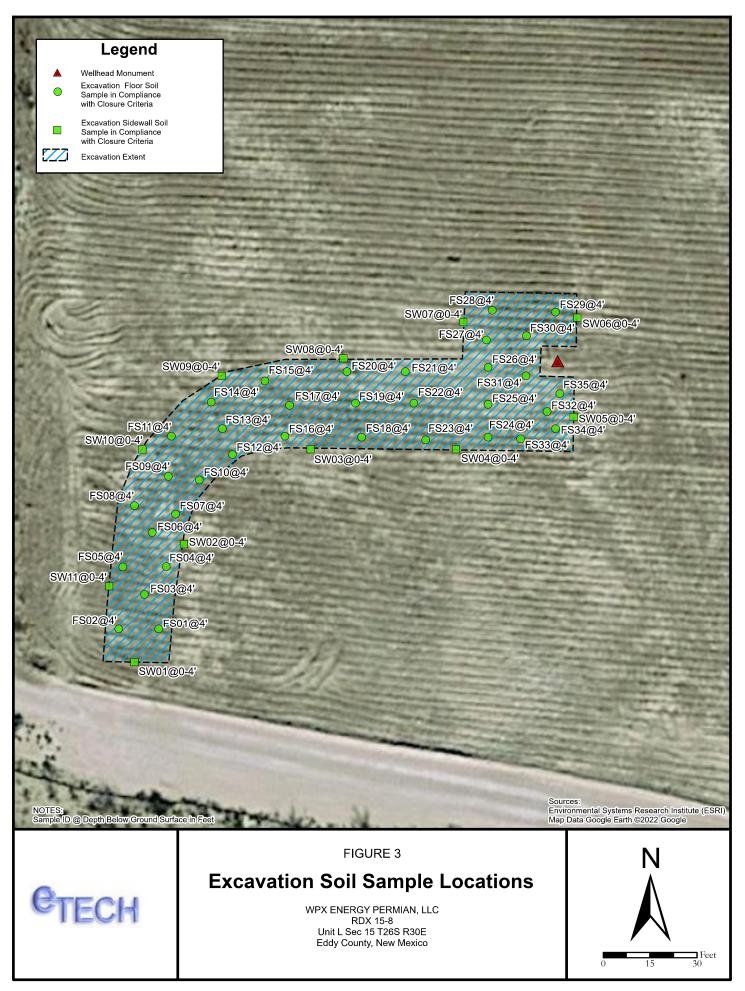
P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213





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### **APPENDIX B**

## **Referenced Well Records**

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



Page	17	of	<i>182</i>
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		HR	L						MONITORING W	ELL COMPLETIO	N DIAG	RAM	
				IAN	C E		Boring/Wel		W-1	Location: RDX 16	-25		
SOLUTIONS								12/10	0/2020	Client: WPX En	Client: WPX Energy		
Drilling Me			Sampling 1				Logged By:			Drilled By:			
A Gravel Pacl	Air Rotar	у	Gravel Pac	k Depth Inte	one erval:		Seal Type:	J. L11	nn, PG Seal Depth Interval:	Talon L Latitude:	PE		
1	0/20 san			3 b	ags		N	lone	None	32.0399	004		
Casing Typ PVC	e:	Diameter: 2-inch		Depth Inter 0-105 fe			Boring Tota	al Depth (ft. BC	GS): 10	Longitude: -103.883.	3368		
Screen Typ		Slot:		Diameter:	Depth	Interval:	Well Total	Depth (ft. BGS	):	Depth to Water (ft. BTOC):	DTW Date		
PVC		0.010-ii	nch	2-inch	105-	110 ft		11	10	>110	12/16	/2020	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID	Litholog	y/Remarks	We Comp		
0 5 10 15 20	NM	L	D	N	N	NM	SW	NS		nk tan well graded with silt	-		
25 30 35	NM	L	D	N	N	NM	SP	NS		le pinky orange poorly graded fine sand			
40 45	NM	L	D	N	N	NM	SW	NS		d well graded sand gravel			
50 55	NM	L	D	Ν	Ν	NM	SP	NS		e poorly graded fine and	I		
60 65 70 75 80 85 90 95 100 105 110	NM	L	D	N	N	NM	SP	NS	sand with minor	e poorly graded fine medium and coarse D: 110' bgs			

### APPENDIX C

# Soil Sampling Logs

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



						Commis Name: DU01	Data: 07/10/2022 7/10/2022			
1 -		-				•	Date: 07/12/2023 - 7/19/2023			
	-	-(								
		_	/ 1							
						Method: Hand Auger/Backhoe				
						Total Depth: 4'				
					Test Strip					
performed with 1:4 dilution factor of soil to distilled water.										
Content Content Chloride (ppm) Vapor (ppm) Staining Staining Sample ID Sample ID Depth (feet bgs) (feet bgs) USCS/Rock Symbol							scriptions/Notes			
0.0	No	PH01	0.5	-	SW-SM	(0-4') SAND, dry, brown, w fine to coarse grained, no s				
0.0	No		1 _	_ 1		@2' Color change to Tan.				
0.0	No		2	- 2		Hand auger refusal @0.5' b advanced with a backhoe o	gs on 07/12/2023, was further n 07/19/2023 to 6' bgs.			
0.0	No		3	- 3						
0.0	No	PH01	4	4						
0.0			-		Total D	epth				
	s: 32.041 d screeni 1:4 dilutic <b>abor</b> 0.0 0.0 0.0	32.04164453         d screening co         1:4 dilution fact <b>(mdb) (bbm)</b> 30.0         No         0.0	S: 32.0416445583352,         d screening conducted         1:4 dilution factor of so         Image: screening conducted         Image: screeni	a: 32.0416445583352, -103.87663         d screening conducted with HACH         1:4 dilution factor of soil to distilled <b>a (bbm) b (bbm) a (bbm) b (bbm) b (bbm) b (bbm) b (bbm) a (bbm) b (bbm) b (bbm) a (bbm) b (bbm) a (bbm) b (bbm) a (bbm) b (bbm) b (bbm) a (bbm) b (bbm)</b> <th>a: 32.0416445583352, -103.876658799956         d screening conducted with HACH Chloride         1:4 dilution factor of soil to distilled water.         index       index         index</th> <th>d screeening conducted with HACH Chloride Test Strip         1:4 dilution factor of soil to distilled water.         Image: screening conducted with HACH Chloride Test Strip         1:4 dilution factor of soil to distilled water.         Image: screening conducted with HACH Chloride Test Strip         Image: screening conducted with HACH Chloride Test Strip         Image: screening conducted with HACH Chloride Test Strip         Image: screening conducted with HACH Chloride Water.         Image: screening conducted with HACH Chloride Test Strip         Image: screening conducted with HACH Chloride Water.         Image: screening conducted with HACH Chloride Test Strip         Image: screening conducted with HACH Chloride Test Strip     &lt;</th> <th>s: 32.0416445583352, -103.876658799956       Hole Diameter: N/A         d screening conducted with HACH Chloride Test Strips and PID for chloride and var         1:4 dilution factor of soil to distilled water.         <b>b</b> (<b>u</b>)       <b>a</b> (<b>u</b>)         <b>b</b> (<b>u</b>)       <b>b</b> (<b>u</b>)         <b>c</b> (<b>u</b>)       <b>b</b> (<b>u</b>)         <b>c</b> (<b>u</b>)       <b>b</b> (<b>u</b>)         <b>c</b> (<b>u</b>)       <b>b</b> (<b>u</b>)         <b>d</b> (<b>u</b>)       <b>d</b> (<b>u</b>)</th>	a: 32.0416445583352, -103.876658799956         d screening conducted with HACH Chloride         1:4 dilution factor of soil to distilled water.         index       index         index	d screeening conducted with HACH Chloride Test Strip         1:4 dilution factor of soil to distilled water.         Image: screening conducted with HACH Chloride Test Strip         1:4 dilution factor of soil to distilled water.         Image: screening conducted with HACH Chloride Test Strip         Image: screening conducted with HACH Chloride Test Strip         Image: screening conducted with HACH Chloride Test Strip         Image: screening conducted with HACH Chloride Water.         Image: screening conducted with HACH Chloride Test Strip         Image: screening conducted with HACH Chloride Water.         Image: screening conducted with HACH Chloride Test Strip         Image: screening conducted with HACH Chloride Test Strip     <	s: 32.0416445583352, -103.876658799956       Hole Diameter: N/A         d screening conducted with HACH Chloride Test Strips and PID for chloride and var         1:4 dilution factor of soil to distilled water. <b>b</b> ( <b>u</b> ) <b>a</b> ( <b>u</b> ) <b>b</b> ( <b>u</b> ) <b>c</b> ( <b>u</b> ) <b>b</b> ( <b>u</b> ) <b>c</b> ( <b>u</b> ) <b>b</b> ( <b>u</b> ) <b>c</b> ( <b>u</b> ) <b>b</b> ( <b>u</b> ) <b>d</b> ( <b>u</b> )			

						Comula Noma: DU02	Data: 07/10/0000 7/10/0000	
-		-				Sample Name: PH02	Date: 07/12/2023 - 7/19/2023	
- 1	-	-(						
		_	/ I I		Job Number: 18145			
						-		
					Toot Striv		Total Depth: 4'	
					rest out		or, respectively. Chionde test	
Content Content Chloride (ppm)							scriptions/Notes	
0.0	No	PH02	0.5	-			-	
0.0	No		1	_ 1		@2' Color change to Tan.		
6 0.0	No		2	- _ 2 -			gs on 07/12/2023, was further n 07/19/2023 to 6' bgs.	
2 0.0	No		3	3				
0.0	No	PH02	4	4				
0.0		• =			Total D	epth		
	s: 32.041 d screeni 1:4 dilutic <b>J odg</b> 1 0.0 1 0.0 1 0.0 2 0.0	s: 32.04164453 d screening co 1:4 dilution fact <b>a (mdd)</b> <b>b (abou</b> <b>b (b)</b> <b>c (abou</b> <b>c (abou</b> ) <b>c (abou</b> ) <b>c (abou</b> ) <b>c (abou</b> ) <b>c (abou)</b> <b>c (abou)</b> <b>c</b>	s: 32.0416445583352, d screening conducted 1:4 dilution factor of so <b>a b c ( ) b c abor</b> <b>b c abor</b> <b>b c abor</b> <b>c abor</b>	s: 32.0416445583352, -103.87663 d screening conducted with HACH 1:4 dilution factor of soil to distilled <b>a (b (b (b) (c) </b>	s: 32.0416445583352, -103.876658799956 d screening conducted with HACH Chloride 1:4 dilution factor of soil to distilled water. <b>1:4 dilution factor of soil to distilled water</b> . <b>1:4 dilution factor of soil to distilled water</b> .	d screening conducted with HACH Chloride Test Strip         1:4 dilution factor of soil to distilled water.         i dilut	Site Name: RDX 15-8         Incident Number: nAB1512455         Job Number: 18145         OLOGIC / SOIL SAMPLING LOG       Logged By: EK         s: 32.0416445583352, -103.876658799956       Hole Diameter: N/A         d screening conducted with HACH Chloride Test Strips and PID for chloride and vape 1:4 dilution factor of soil to distilled water.         Image: Streening Conducted with HACH Chloride Test Strips and PID for chloride and vape 1:4 dilution factor of soil to distilled water.         Image: Streening Conducted With HACH Chloride Test Strips and PID for chloride and vape 1:4 dilution factor of soil to distilled water.         Image: Streening Conducted With HACH Chloride Test Strips and PID for chloride and vape 1:4 dilution factor of soil to distilled water.         Image: Streening Conducted With HACH Chloride Test Strips and PID for chloride and vape 1:4 dilution factor of soil to distilled water.         Image: Streening Conducted With HACH Chloride Test Strips and PID for chloride and vape 1:4 dilution factor of soil to distilled water.         Image: Streening Conducted With HACH Chloride Test Strips and PID for chloride and vape 1:4 dilution factor of soil to distilled water.         Image: Streening Conducted With HACH Chloride Test Strips and PID for chloride and vape 1:4 dilution factor of soil to distilled Water.         Image: Streening Conducted With Backhoe Other Streening Conducted With a backhoe other Chloride Test Streening Conducted With a bac	

	6							Sample Name: DH02	Data: 07/12/2022 7/10/2022	
								Sample Name: PH03 Site Name: RDX 15-8	Date: 07/12/2023 - 7/19/2023	
				-(				Incident Number: nAB1512455138		
								Job Number: 18145		
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: EK Method: Hand Auger/Backho			
Site Coordinates: 32.0416445583352, -103.876658799956							Hole Diameter: N/A	Total Depth: 4'		
							Test Strip	os and PID for chloride and vap		
	ed with 1:									
Moisture Content	Content Content (ppm) Vapor (ppm) Staining Sample ID Sample ID Depth (feet bgs) USCS/Rock Symbol							scriptions/Notes		
Dry	828.8	0.0	No	PH03	0.5	-		(0-4') SAND, dry, brown, w fine to coarse grained, no s	-	
Dry	828.8	0.0	No		1 _	_ 1		@2' Color change to Tan.		
Dry	1,164.8	0.0	No		2 _	2		Hand auger refusal @0.5' b advanced with a backhoe o	ogs on 07/12/2023, was further n 07/19/2023 to 6' bgs.	
Dry	1,164.8	0.0	No		3	- 3				
Dry	1,573.6	0.0	No	PH03	4	4				
	1,070.0	0.0		11100	- <b>-</b>		L Total D	epth		

₹T	-					Sample Name: PH04				
					Site Name: RDX 15-8	Date: 07/12/2023 - 7/19/2023				
		-(				Incident Number: nAB1512455138				
		-	/ U U		Job Number: 18145					
					Logged By: EK	Method: Hand Auger/Backhoe				
						Total Depth: 4'				
					Test Strip		-			
performed with 1:4 dilution factor of soil to distilled water.										
Content Content (ppm) Vapor (ppm) Staining Staining Sample ID Sample ID Depth (feet bgs) USCS/Rock Symbol						scriptions/Notes				
2 0.0	No	PH04	0.5	0		(0-4') SAND, dry, brown, we fine to coarse grained, no st	-			
0.0	No		1	_ 1		@2' Color change to Tan.				
0.0	No		2	- _ 2		Hand auger refusal @0.5' b advanced with a backhoe of	gs on 07/12/2023, was further n 07/19/2023 to 6' bgs.			
0.0	No		3	- 3 -						
0.0	No	PH04	4	4						
0.0	1.101				Total D	epth				
	2 0.0 0.0	Id screening co 1:4 dilution fact <b>a</b> (mdd) <b>b</b> (b) <b>b</b> (b) <b>c</b> (b) <b>c</b> (c) <b>c</b> (c) <b></b>	IS: 32.0416445583352, Id screening conducted 1:4 dilution factor of so <b>G</b> (mdd) <b>B G</b> <b>G G</b> <b>G G</b> <b>G G</b> <b>G G</b> <b>G G</b> <b>G G</b> <b>G</b> <b>G</b> <b>G</b> <b>G</b> <b>G</b> <b>G</b> <b>G</b> <b>G</b> <b>G</b>	is: 32.0416445583352, -103.87665 Id screening conducted with HACH 1:4 dilution factor of soil to distilled <b>a (mashed)</b> <b>b (n)</b> <b>b (n)</b> <b>b (n)</b> <b>c (n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b>(n)</b> <b></b>	Ins: 32.0416445583352, -103.876658799956         Id screening conducted with HACH Chloride         1:4 dilution factor of soil to distilled water.         Image: Streening Conducted With HACH Chloride         1:4 dilution factor of soil to distilled water.         Image: Streening Conducted With HACH Chloride         1:4 dilution factor of soil to distilled water.         Image: Streening Conducted With HACH Chloride         1:4 dilution factor of soil to distilled water.         Image: Streening Conducted With HACH Chloride         1:4 dilution factor of soil to distilled water.         2:0.0       No         0:0       No         0:0	Is: 32.0416445583352, -103.876658799956   Id screening conducted with HACH Chloride Test Strip   1:4 dilution factor of soil to distilled water.     Image: Construct of the second strip   1:4 dilution factor of soil to distilled water.     Image: Construct of soil to	s: 32.0416445583352, -103.876658799956       Hole Diameter: N/A         Id screening conducted with HACH Chloride Test Strips and PID for chloride and vap         1.4 dilution factor of soil to distilled water.         Image: Strips of the strips o			

	6							Sample Nemer DH05	Data: 07/12/2022 7/10/2022	
				-				Sample Name: PH05 Site Name: RDX 15-8	Date: 07/12/2023 - 7/19/2023	
				-(				Incident Number: nAB1512455138		
								Job Number: 18145		
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: EK	Method: Hand Auger/Backhoe		
Site Coordinates: 32.0416445583352, -103.876658799956							Hole Diameter: N/A	Total Depth: 4'		
							Test Strip	os and PID for chloride and vap		
performed with 1:4 dilution factor of soil to distilled water.										
Moisture Content	Content Content (ppm) Vapor (ppm) Staining Staining Sample ID Sample ID Depth (feet bgs) (feet bgs) USCS/Rock Symbol							scriptions/Notes		
Dry	2,374.4	0.0	No	PH05	0.5	-		(0-4') SAND, dry, brown, w fine to coarse grained, no s	-	
Dry	3,623.2	0.0	No		1	_ 1		@2' Color change to Tan.		
Dry	1,691.2	0.0	No		2	- _ 2		Hand auger refusal @0.5' b advanced with a backhoe o	ogs on 07/12/2023, was further n 07/19/2023 to 6' bgs.	
Dry	2,217.6	0.0	No		3 _	- 3				
Dry	1,260.0	0.0	No	PH05	4	4				
	1,200.0	0.0		1 1 100	- <b>T</b>		Total D	epth		
Total Depth										

### APPENDIX D

# Photographic Log

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





### APPENDIX E

### Tables

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Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC RDX 15-8 Eddy County, New Mexico											
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)	
NMOCD Table I Closu Release (NMAC 19.15		s Impacted by a	10	50	NE	NE	NE	1,000	2,500	20,000	
	,			Delineation S	l Soil Samples - Incident	Number nAB15124551	38				
PH01	07/12/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,540	
PH01	07/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	763	
PH02	07/12/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,110	
PH02	07/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	653	
PH03	07/12/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,460	
PH03	07/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,420	
PH04	07/12/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	18,700	
PH04	07/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	514	
PH05	07/12/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	7,150	
PH05	07/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,090	
				Excavation S	oil Samples - Incident	Number nAB15124551	38				
FS01	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,370	
FS02	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,100	
FS03	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,470	
FS04	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,100	
FS05	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	994	
FS06	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,810	
FS07	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	998	
FS08	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,180	
FS09	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	937	
FS10	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,640	
FS11	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	595	
FS12	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,310	
FS13	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	954	
FS14	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,150	

Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC RDX 15-8 Eddy County, New Mexico											
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)	
MMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)		s Impacted by a	10	50	NE	NE	NE	1,000	2,500	20,000	
FS15	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	963	
FS16	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,060	
FS17	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	805	
FS18	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	935	
FS19	09/11/2023	4	<0.0500	<0.100	<40.0	<25.0	<50.0	<40.0	<50.0	549	
FS20	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	910	
FS21	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	795	
FS22	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,200	
FS23	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	980	
FS24	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	816	
FS25	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,740	
FS26	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	475	
FS27	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	984	
FS28	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	913	
FS29	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	552	
FS30	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	576	
FS31	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,050	
FS32	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	774	
FS33	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,630	
FS34	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,180	
FS35	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	213	
SW01	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	<400	
SW02	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	<400	
SW03	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	97.2	
SW04	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	158	

Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC RDX 15-8 Eddy County, New Mexico										
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SW05	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	152
SW06	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	443
SW07	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	<400
SW08	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	160
SW09	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	279
SW10	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	149
SW11	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	443

Notes:

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

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Text in "grey" represents excavated soil samples

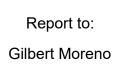
Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

## APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation

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







5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

### **Analytical Report**

### WPX Energy - Carlsbad

Project Name: RDX 15 - 8

Work Order: E307045

Job Number: 01058-0007

Received: 7/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/18/23

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: 7/18/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 15 - 8 Workorder: E307045 Date Received: 7/13/2023 8:15:00AM

Gilbert Moreno,



Page 32 of 182

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/13/2023 8:15:00AM, under the Project Name: RDX 15 - 8.

The analytical test results summarized in this report with the Project Name: RDX 15 - 8 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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#### Received by OCD: 9/29/2023 1:08:59 PM

### Sample Summary

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		Sumple Sum	illal y		
WPX Energy - Carlsbad		Project Name:	RDX 15 - 8		Reported:
5315 Buena Vista Dr	Project Number:	01058-0007		Reported:	
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		07/18/23 14:02
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 0.5'	E307045-01A	Soil	07/12/23	07/13/23	Glass Jar, 2 oz.
PH02 0.5'	E307045-02A	Soil	07/12/23	07/13/23	Glass Jar, 2 oz.
РН03 0.5'	E307045-03A	Soil	07/12/23	07/13/23	Glass Jar, 2 oz.
PH04 0.5'	E307045-04A	Soil	07/12/23	07/13/23	Glass Jar, 2 oz.
PH05 0.5'	E307045-05A	Soil	07/12/23	07/13/23	Glass Jar, 2 oz.



	S	ample D	ata			
WPX Energy - Carlsbad	Project Name:	RD2	K 15 - 8			
5315 Buena Vista Dr	Project Numb	er: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			7/18/2023 2:02:06PM
		PH01 0.5'				
		E307045-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2328053
Benzene	ND	0.0250	1	07/13/23	07/13/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/13/23	
Toluene	ND	0.0250	1	07/13/23	07/13/23	
o-Xylene	ND	0.0250	1	07/13/23	07/13/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/13/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/13/23	
Surrogate: 4-Bromochlorobenzene-PID		98.7 %	70-130	07/13/23	07/13/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2328053
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.6 %	70-130	07/13/23	07/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2328063
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/23	07/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/14/23	07/17/23	
Surrogate: n-Nonane		90.0 %	50-200	07/14/23	07/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2328062
Chloride	6540	400	20	07/14/23	07/17/23	



	3	ample D	ata			
WPX Energy - Carlsbad	Project Name	: RD2	K 15 - 8			
5315 Buena Vista Dr	Project Numb	er: 0103	58-0007	Reported:		
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			7/18/2023 2:02:06PM
		PH02 0.5'				
		E307045-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2328053
Benzene	ND	0.0250	1	07/13/23	07/13/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/13/23	
Toluene	ND	0.0250	1	07/13/23	07/13/23	
o-Xylene	ND	0.0250	1	07/13/23	07/13/23	
o,m-Xylene	ND	0.0500	1	07/13/23	07/13/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/13/23	
Surrogate: 4-Bromochlorobenzene-PID		97.8 %	70-130	07/13/23	07/13/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2328053
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.0 %	70-130	07/13/23	07/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2328063
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/23	07/17/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/14/23	07/17/23	
Surrogate: n-Nonane		90.2 %	50-200	07/14/23	07/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2328062
Chloride	6110	400	20	07/14/23	07/17/23	



	5	ample D	ata			
WPX Energy - Carlsbad	Project Name:	RD2	K 15 - 8			
5315 Buena Vista Dr	Project Numb	er: 0105	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			7/18/2023 2:02:06PM
		PH03 0.5'				
		E307045-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2328053
Benzene	ND	0.0250	1	07/13/23	07/13/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/13/23	
Toluene	ND	0.0250	1	07/13/23	07/13/23	
o-Xylene	ND	0.0250	1	07/13/23	07/13/23	
o,m-Xylene	ND	0.0500	1	07/13/23	07/13/23	
Fotal Xylenes	ND	0.0250	1	07/13/23	07/13/23	
Surrogate: 4-Bromochlorobenzene-PID		98.5 %	70-130	07/13/23	07/13/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2328053
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.6 %	70-130	07/13/23	07/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2328063
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/23	07/17/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/14/23	07/17/23	
Surrogate: n-Nonane		97.2 %	50-200	07/14/23	07/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2328062
Chloride	5460	400	20	07/14/23	07/17/23	



	25	ample D	ลเล			
WPX Energy - Carlsbad	Project Name:	RDZ	K 15 - 8			
5315 Buena Vista Dr	Project Numbe	er: 0105	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moreno			7/18/2023 2:02:06PM
		PH04 0.5'				
		E307045-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst	: IY		Batch: 2328053
Benzene	ND	0.0250	1	07/13/23	07/13/23	
thylbenzene	ND	0.0250	1	07/13/23	07/13/23	
°oluene	ND	0.0250	1	07/13/23	07/13/23	
-Xylene	ND	0.0250	1	07/13/23	07/13/23	
,m-Xylene	ND	0.0500	1	07/13/23	07/13/23	
otal Xylenes	ND	0.0250	1	07/13/23	07/13/23	
urrogate: 4-Bromochlorobenzene-PID		98.4 %	70-130	07/13/23	07/13/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: IY		Batch: 2328053
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/13/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		81.9 %	70-130	07/13/23	07/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: KM		Batch: 2328063
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/23	07/17/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/14/23	07/17/23	
urrogate: n-Nonane		98.3 %	50-200	07/14/23	07/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2328062
Chloride	18700	2000	100	07/14/23	07/17/23	



	3	ample D	ลเล					
WPX Energy - Carlsbad	Project Name	: RDZ	K 15 - 8					
5315 Buena Vista Dr	Project Numb	ber: 0105	58-0007			Reported:		
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno			7/18/2023 2:02:06PM		
		PH05 0.5'						
		E307045-05						
		Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2328053		
Benzene	ND	0.0250	1	07/13/23	07/13/23			
Ethylbenzene	ND	0.0250	1	07/13/23	07/13/23			
Toluene	ND	0.0250	1	07/13/23	07/13/23			
-Xylene	ND	0.0250	1	07/13/23	07/13/23			
o,m-Xylene	ND	0.0500	1	07/13/23	07/13/23			
Total Xylenes	ND	0.0250	1	07/13/23	07/13/23			
Surrogate: 4-Bromochlorobenzene-PID		98.4 %	70-130	07/13/23	07/13/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2328053		
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/13/23			
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.8 %	70-130	07/13/23	07/13/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2328063		
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/23	07/17/23			
Dil Range Organics (C28-C36)	ND	50.0	1	07/14/23	07/17/23			
urrogate: n-Nonane		90.0 %	50-200	07/14/23	07/17/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2328062		
Chloride	7150	400	20	07/14/23	07/17/23			



# QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	DX 15 - 8 .058-0007 ilbert Moreno					<b>Reported:</b> 7/18/2023 2:02:06PM
		Volatile O	rganics b	oy 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 (2328053-BLK1)							Prepared: 0	7/13/23 A	nalyzed: 07/13/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Foluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Fotal Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			
LCS (2328053-BS1)							Prepared: 0	7/13/23 A	nalyzed: 07/13/23
Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	4.96	0.0250	5.00		99.2	70-130			
Toluene	5.12	0.0250	5.00		102	70-130			
p-Xylene	5.12	0.0250	5.00		102	70-130			
o,m-Xylene	10.3	0.0500	10.0		103	70-130			
Fotal Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			
Matrix Spike (2328053-MS1)				Source: ]	E307045-	02	Prepared: 0	7/13/23 A	nalyzed: 07/13/23
Benzene	4.94	0.0250	5.00	ND	98.8	54-133			
Ethylbenzene	4.81	0.0250	5.00	ND	96.3	61-133			
Toluene	4.96	0.0250	5.00	ND	99.3	61-130			
p-Xylene	4.97	0.0250	5.00	ND	99.4	63-131			
o,m-Xylene	9.96	0.0500	10.0	ND	99.6	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.86		8.00		98.3	70-130			
Matrix Spike Dup (2328053-MSD1)				Source: 1	E <b>307045</b> -	02	Prepared: 0	7/13/23 A	nalyzed: 07/13/23
Benzene	4.97	0.0250	5.00	ND	99.5	54-133	0.724	20	
Ethylbenzene	4.84	0.0250	5.00	ND	96.8	61-133	0.585	20	
Toluene	5.00	0.0250	5.00	ND	99.9	61-130	0.617	20	
p-Xylene	5.00	0.0250	5.00	ND	100	63-131	0.629	20	
o,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	0.645	20	
	15.0	0.0250	15.0	ND	100	63-131	0.640	20	



## **QC Summary Data**

			<b>Reported:</b> 7/18/2023 2:02:06PM
)			Analyst: IY
Rec Limits	RPD %	RPD Limit %	Notes
Pre	epared: 07	//13/23	Analyzed: 07/13/23
70-130			
Pro	epared: 07	/13/23	Analyzed: 07/13/23
70-130			
70-130			
Pro	epared: 07	/13/23	Analyzed: 07/13/23
70-130			
70-130			
Pro	epared: 07	/13/23	Analyzed: 07/13/23
70-130	8.22	20	
70-130			
	Rec Limits % 70-130 Pr 70-130 70-130 70-130 70-130 Pr 70-130	Rec Limits         RPD           %         %           Prepared: 07           70-130           70-130           70-130           70-130           70-130           70-130           70-130           70-130           70-130           70-130           70-130           70-130           Prepared: 07           70-130	Rec Limits         RPD RPD         Limit Limits           %         %         %           Prepared:         07/13/23           70-130         70-130           70-130         Prepared:         07/13/23           70-130         Prepared:         07/13/23           70-130         Prepared:         07/13/23           70-130         Prepared:         07/13/23           70-130         Prepared:         07/13/23



## QC Summary Data

		VC B	u 111111	ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(	RDX 15 - 8 01058-0007 Gilbert Moreno					<b>Reported:</b> 7/18/2023 2:02:06PM
	Nonh	alogenated Orga	anics by	y EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2328063-BLK1)							Prepared: 0	7/14/23 A	analyzed: 07/17/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	47.1		50.0		94.1	50-200			
LCS (2328063-BS1)							Prepared: 0	7/14/23 A	analyzed: 07/17/23
Diesel Range Organics (C10-C28)	277	25.0	250		111	38-132			
Surrogate: n-Nonane	50.0		50.0		100	50-200			
Matrix Spike (2328063-MS1)				Source: <b>E</b>	307045-	04	Prepared: 0	7/14/23 A	analyzed: 07/17/23
Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.7	38-132			
Surrogate: n-Nonane	46.4		50.0		92.7	50-200			
Matrix Spike Dup (2328063-MSD1)				Source: E	307045-	04	Prepared: 0	7/14/23 A	analyzed: 07/17/23
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132	1.13	20	
Surrogate: n-Nonane	50.3		50.0		101	50-200			



## **QC Summary Data**

			•	J					
WPX Energy - Carlsbad		Project Name:	]	RDX 15 - 8					Reported:
5315 Buena Vista Dr		Project Number:	(	01058-0007					-
Carlsbad NM, 88220		Project Manager	: (	Gilbert Moreno					7/18/2023 2:02:06PM
		Anions	by EPA	<b>300.0/9056</b> A	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 (2328062-BLK1)							Prepared: 0	7/14/23 A	nalyzed: 07/17/23
Chloride	ND	20.0							
LCS (2328062-BS1)							Prepared: 0	7/14/23 A	nalyzed: 07/17/23
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2328062-MS1)				Source:	E307045-	01	Prepared: 0	7/14/23 A	nalyzed: 07/17/23
Chloride	6750	400	250	6540	83.2	80-120			
Matrix Spike Dup (2328062-MSD1)				Source:	E307045-	01	Prepared: 0	7/14/23 A	nalyzed: 07/17/23
Chloride	6600	400	250	6540	23.5	80-120	2.24	20	M4

QC Summary Report Comment:

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



Definitions and Notes									
WPX Energy - Carlsbad	Project Name:	RDX 15 - 8							
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:						
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/18/23 14:02						

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

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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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Reproject Information

lient: W	/PX Energy Pe	rmian LLC	2.				Bill To		1	In all	la	b Use	On	V			TA	т		FPA P	rogram
	RDX 15-8				Atte	Attention: Jim Raley					Lab WO# Job Number							Stand	dard	CWA	SDWA
	Aanager: Gilb	ert Morer	סר			ress: 5315 Bue		1		3070	245			58-000		) 2D	3D	5 day			
ddress:	13000 W Cou	inty Rd 10	00		City	, State, Zip: Ca	rlsbad, NM, 88220	2					naly	sis and Met	hod		l				RCRA
ity, Stat	te, Zip_Odess	a,TX, 7976	55	2- 1 P - 1	Pho	ne: 575-885-7	502		10.1	þ			T		T	T					
hone: (	832) 541-7719	9			Ema	ail: jim.raley@	dvn.com		1	ORO										State	
mail: D	evon-team@e	etechenv.	com		WO	: N/A		SI.	1	RO/O	H			0.0	MN			N	и со	UT AZ	TX
ollected	d by: Edyte Ko	nan			Inci	dent ID: nAB1	512455138		£ [	d/o	y 802	y 826	6010	e 30(		1	1 1				
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	RGDOC		GDOC			Remarks	Page rogram SDWA RCRA
10:00	7/12/2023	S	1			PH01	2	1	0.5'						>	(					
10:10	7/12/2023	S	1			PH02	Ĵ.	2	0.5'						)	(		-			
10:20	7/12/2023	S	1			РН03		3	0.5'						>	(		1			
10:30	7/12/2023	S	1			PH04		4	0.5'						>	(					
10:40	7/12/2023	S	1			PH05		5	0.5'						>	(					
																					E.
				16																	
_																					
dditior	al Instruction	is:																			
				of this sample. I am be grounds for legal :			ntentionally mislabelling led by:	the sample l	ocation	,				s requiring thern d packed in ice a	t an avg f	emp abo	ve 0 but l	ess than 6		S	pled or
elinquish h	ed by: (Signature	2)	Date 07/1	2/2023 Time 13:30	(	Received by: (Sig MCUI	a Cluds	Date 7/2/	23	Time 13	30	F	ece	ived on ice		Lab U	se On I	ly			
elinguish MC	ed by: (Signative UUU (U	male	- Date		715	Received by (Sig	(nature) MSSa	Date 7-12	.23	Time	7/5	5 1	1		T2			<u>T3</u>			
10	ed by: (Signature	Wesse	Date		245	Received by Si	-Man	Date 7/13/2	23	Time B:/	5	A	VG	Temp °C	4						
ample Mat	rix: <b>S</b> - Soil, <b>Sd</b> - So	lid, Sg - Sludg	ge, A - Aqueo	ous, O - Other				Containe	r Type	:g-g	lass,			astic, ag - a		glass, v	- VOA	1		2017	

## **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

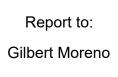
Client:	WPX Energy - Carlsbad D	ate Received:	07/13/23 (	08:15	Work Order ID:	E307045
Phone:	(539) 573-4018 D	ate Logged In:	07/13/23 (	08:47	Logged In By:	Caitlin Mars
Email:		ue Date:	07/19/23	17:00 (4 day TAT)		
<u>Chain a</u>	of Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was t	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>					
6. Did tl	he COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	Cooler					
7. Was a	a sample cooler received?		Yes			
8. If yes	, was cooler received in good condition?		Yes			
9. Was t	he sample(s) received intact, i.e., not broken?		Yes			
10. Wer	e custody/security seals present?		No			
11. If ye	es, were custody/security seals intact?		NA			
12. Was	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re		Yes			
13 If no	minutes of sampling visible ice, record the temperature. Actual sample ter	nnerature: 4º	C			
		прегаците. <u>+</u>	<u>c</u>			
	<u>Container</u> aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	e appropriate volume/weight or number of sample containers	s collected?	Yes			
Field La						
	e field sample labels filled out with the minimum inform	ation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes	L		
	Collectors name?		Yes			
	<u>Preservation</u>	muod9	NT-			
	s the COC or field labels indicate the samples were press sample(s) correctly preserved?	erved?	No NA			
	sample(s) correctly preserved? b filteration required and/or requested for dissolved meta	ale?	NA No			
		115 :	INO			
	nase Sample Matrix		<b>N</b> 7			
<u>Multipl</u>			No			
<u>Multipl</u> 26. Doe	s the sample have more than one phase, i.e., multiphase?	40				
Multipl 26. Doe 27. If ye	es, does the COC specify which phase(s) is to be analyze	d?	NA			
Multipl 26. Doe 27. If ye Subcon	es, does the COC specify which phase(s) is to be analyze tract Laboratory					
Multiph 26. Doe 27. If ye Subcon 28. Are	es, does the COC specify which phase(s) is to be analyze		NA No NA	Subcontract Lab: NA		

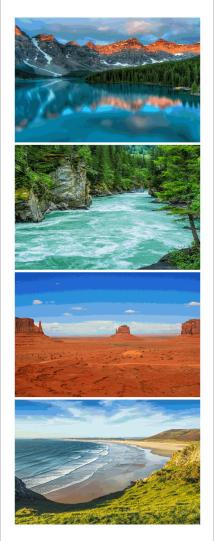
Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.

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5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

# WPX Energy - Carlsbad

Project Name: RDX 15 - 8

Work Order:	E307118

Job Number: 01058-0007

Received: 7/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/27/23

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: 7/27/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 15 - 8 Workorder: E307118 Date Received: 7/24/2023 5:30:00AM

Gilbert Moreno,



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Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2023 5:30:00AM, under the Project Name: RDX 15 - 8.

The analytical test results summarized in this report with the Project Name: RDX 15 - 8 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

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

Envirotech Web Address: www.envirotech-inc.com

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eceived by OCD: 9/29/2023 1:08:59 PM			Page	50 of 182
	Sample Sum	mary		
WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:	
5315 Buena Vista Dr	Project Number:	01058-0007	Keporteu:	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/27/23 13:37	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 4'	E307118-01A	Soil	07/19/23	07/24/23	Glass Jar, 2 oz.
PH02 4'	E307118-02A	Soil	07/19/23	07/24/23	Glass Jar, 2 oz.
PH03 4'	E307118-03A	Soil	07/19/23	07/24/23	Glass Jar, 2 oz.



	~•	ampic D				
WPX Energy - Carlsbad	Project Name:		K 15 - 8			
5315 Buena Vista Dr	Project Numbe		58-0007		Reported:	
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			7/27/2023 1:37:54PM
		PH01 4'				
		E307118-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2330014
Benzene	ND	0.0250	1	07/24/23	07/26/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/26/23	
Toluene	ND	0.0250	1	07/24/23	07/26/23	
p-Xylene	ND	0.0250	1	07/24/23	07/26/23	
o,m-Xylene	ND	0.0500	1	07/24/23	07/26/23	
Fotal Xylenes	ND	0.0250	1	07/24/23	07/26/23	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	07/24/23	07/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2330014
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.8 %	70-130	07/24/23	07/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: KM		Batch: 2330030
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/26/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/26/23	
Surrogate: n-Nonane		91.6 %	50-200	07/25/23	07/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2330038
Chloride	763	200	10	07/25/23	07/25/23	

# Sample Data



	2	ample D	ata			
WPX Energy - Carlsbad	Project Name	: RD2	K 15 - 8			
5315 Buena Vista Dr	Project Numb	er: 0105	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			7/27/2023 1:37:54PM
		PH02 4'				
		E307118-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: IY		Batch: 2330014
Benzene	ND	0.0250	1	07/24/23	07/26/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/26/23	
Toluene	ND	0.0250	1	07/24/23	07/26/23	
o-Xylene	ND	0.0250	1	07/24/23	07/26/23	
o,m-Xylene	ND	0.0500	1	07/24/23	07/26/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/26/23	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	70-130	07/24/23	07/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: IY		Batch: 2330014
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.5 %	70-130	07/24/23	07/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	/st: KM		Batch: 2330030
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/26/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/26/23	
urrogate: n-Nonane		96.9 %	50-200	07/25/23	07/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: BA		Batch: 2330038
Chloride	653	20.0	1	07/25/23	07/25/23	



	3	ample D	ata			
WPX Energy - Carlsbad	Project Name	e: RD2	K 15 - 8			
5315 Buena Vista Dr	Project Numb	oer: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno			7/27/2023 1:37:54PM
		PH03 4'				
		E307118-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2330014
Benzene	ND	0.0250	1	07/24/23	07/26/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/26/23	
Toluene	ND	0.0250	1	07/24/23	07/26/23	
o-Xylene	ND	0.0250	1	07/24/23	07/26/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/26/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/26/23	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	70-130	07/24/23	07/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2330014
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.6 %	70-130	07/24/23	07/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2330030
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/26/23	
Surrogate: n-Nonane		89.3 %	50-200	07/25/23	07/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2330038
Chloride	1420	20.0	1	07/25/23	07/25/23	



# QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	0	DX 15 - 8 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					7/27/2023 1:37:54PM
		Volatile O	rganics l				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 (2330014-BLK1)							Prepared: 0	7/24/23 A	nalyzed: 07/26/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	70-130			
LCS (2330014-BS1)							Prepared: 0	7/24/23 A	analyzed: 07/26/23
Benzene	4.80	0.0250	5.00		96.1	70-130			
Ethylbenzene	4.68	0.0250	5.00		93.6	70-130			
Toluene	4.83	0.0250	5.00		96.6	70-130			
o-Xylene	4.85	0.0250	5.00		97.0	70-130			
p,m-Xylene	9.69	0.0500	10.0		96.9	70-130			
Total Xylenes	14.5	0.0250	15.0		96.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.00		8.00		100	70-130			
Matrix Spike (2330014-MS1)				Source:	E307118-	02	Prepared: 0	7/24/23 A	analyzed: 07/26/23
Benzene	4.75	0.0250	5.00	ND	95.0	54-133			
Ethylbenzene	4.63	0.0250	5.00	ND	92.5	61-133			
Toluene	4.78	0.0250	5.00	ND	95.5	61-130			
p-Xylene	4.79	0.0250	5.00	ND	95.8	63-131			
p,m-Xylene	9.57	0.0500	10.0	ND	95.7	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	95.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.07		8.00		101	70-130			
Matrix Spike Dup (2330014-MSD1)					E307118-		-		analyzed: 07/26/23
Benzene	4.71	0.0250	5.00	ND	94.2	54-133	0.904	20	
Ethylbenzene	4.58	0.0250	5.00	ND	91.6	61-133	1.02	20	
Toluene	4.73	0.0250	5.00	ND	94.7	61-130	0.857	20	
p-Xylene	4.75	0.0250	5.00	ND	95.0	63-131	0.903	20	
p,m-Xylene	9.47	0.0500	10.0	ND	94.7	63-131	1.03	20	
Total Xylenes	14.2	0.0250	15.0	ND	94.8	63-131	0.989	20	



# **QC Summary Data**

<b>Reported:</b> 7/27/2023 1:37:54PM
Analyst: IY
Rec RPD Limits RPD Limit % % % Notes
Prepared: 07/24/23 Analyzed: 07/26/23
0-130
Prepared: 07/24/23 Analyzed: 07/26/23
0-130
70-130
Prepared: 07/24/23 Analyzed: 07/26/23
0-130
70-130
Prepared: 07/24/23 Analyzed: 07/26/23
0-130 0.129 20
0-130

## QC Summary Data

		QC SI	u I I I I I I I	ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX 15 - 8 01058-0007 Gilbert Moreno					<b>Reported:</b> 7/27/2023 1:37:54PM
	Nonh	alogenated Orga	anics by	v EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2330030-BLK1)							Prepared: 0	7/25/23 A	nalyzed: 07/26/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.2		50.0		80.5	50-200			
LCS (2330030-BS1)							Prepared: 0	7/25/23 A	nalyzed: 07/26/23
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	45.8		50.0		91.7	50-200			
Matrix Spike (2330030-MS1)				Source: E	307118-	03	Prepared: 0	7/25/23 A	nalyzed: 07/26/23
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	40.7		50.0		81.5	50-200			
Matrix Spike Dup (2330030-MSD1)				Source: <b>E</b>	307118-	03	Prepared: 0	7/25/23 A	nalyzed: 07/26/23
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132	2.05	20	
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			



## **QC Summary Data**

			•						
WPX Energy - Carlsbad		Project Name:	R	DX 15 - 8					Reported:
5315 Buena Vista Dr		Project Number:	0	1058-0007					
Carlsbad NM, 88220		Project Manager	: G	ilbert Moreno					7/27/2023 1:37:54PM
		Anions	by EPA	300.0/9056A	۱.				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 (2330038-BLK1)							Prepared: 0	7/25/23 A	Analyzed: 07/25/23
Chloride	ND	20.0							
LCS (2330038-BS1)							Prepared: 0	7/25/23 A	Analyzed: 07/25/23
Chloride	261	20.0	250		105	90-110			
Matrix Spike (2330038-MS1)				Source:	E307094-(	01	Prepared: 0	7/25/23 A	Analyzed: 07/25/23
Chloride	274	20.0	250	ND	110	80-120			
Matrix Spike Dup (2330038-MSD1)				Source:	E307094-(	)1	Prepared: 0	7/25/23 A	Analyzed: 07/25/23
Chloride	273	20.0	250	ND	109	80-120	0.378	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 15 - 8	
	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/27/23 13:37

ND	Analyte NOT DETECTED at or above the reporting limit
1.12	inalyte no r bbrbe rbb at or above the reporting initi

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

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

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



Project Information					Chain o	of Custody													Page 1
Client: WPX Energy Per	rmian LLC	C.			Bill To		11-23	6404	La	ab Us	e On	lv				TAT		EPA Pr	ogram
Project: RDX 15-8					tention: Jim Raley		Lah	WO#				Numbe	r	1D	2D 1	100 C 100	Standard	CWA	SDWA
Project Manager: Gilbe	ert Moren	no			dress: 5315 Buena Vista Dr.		F	3	1119	2	06	SXI	-702	+			5 day TAT		
Address: 13000 W Cou					y, State, Zip: Carlsbad, NM, 8822	0	LC		110	L L	Analy	sis and	Metho	d					RCRA
City, State, Zip_Odessa				termination of the local division of the loc	one: 575-885-7502			À			Í			TT	T				
Phone: (832) 541-7719					nail: jim.raley@dvn.com			RO										State	
Email: Devon-team@e		com			D: N/A			0/0				o.		MN			NM CO	UT AZ	TX
Collected by: Edyte Kor					cident ID: nAB1512455138		-	V/DR	802:	3260	010	300				ř			
Time		No. of				Lab	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		2			
Sampled Date Sampled	Matrix	Containers	Sample ID	)		Number	Dept	TPH 3015	3TE)	700	Meta	Chlo		3GD		GDOC		Remarks	
	_			11												-			
10:00 7/19/2023	S	1			PH01	1	4'							X					
			1														-		
10:10 7/19/2023	S	1			PH02	2	4'							X					
10:20 7/19/2023	S	1			PH03	3	4'							X					
						1. 18 20 13													
_																			
						1. 1. 10									- 1				
						S								+					
						-													
						10							-						
						Nº COM													
						21													
						-													
Additional Instruction	s:												-						
I, (field sampler), attest to the v	alidity and a	authenticity	of this sample	e. I am aware tha	at tampering with or intentionally mislabelling	g the sample lo	ocation	١,									ived on ice the day		oled or
date or time of collection is con	sidered frau	id and may b	e grounds for	legal action.	Sampled by:						receive	d packed	in ice at ar	avg tem	p above	0 but les:	s than 6 °C on sub	sequent days.	
Relinquished by: (Signature)	)	Date		Time	Received by: (Signature))	Date		Time			1			La	b Use	Only	Sunce State	all with the	
-type		07/20	0/2023	14:20	Muchille Leural	17-20.	23	110	420		Rece	eived c	n ice:	P	YN				
Relinquished by: (Signature)	) /	Date		Time	Received by: (Signature)	Date		Time						~					
Michell G	uns	10	21.23	1400	Moren Meso	7.21	.23	170	20		T1	and with		T2			<u>T3</u>		
Relinquished by: (Signature)		Date		Time	Received by: (Signature)	Date	-	Time	-				1	1					
MARIN MUS	ho	7.	21.23	2:300	(ILIVII) A	7:24:2	-3	5	:3(	SI	AVG	Temp	°C	4					
Sample Matrix: S - Soil, Sd - Soli	id, Sg - Sludg				- may and the	Containe	Тур	e:g-1	glass,					ber gla	ss, v -	VOA			
and the second		and the second se		and the second se	arrangements are made. Hazardous sa												ort for the ana	lysis of the	above
samples is applicable only to	o those san	nples receiv	ved by the la	boratory with	this COC. The liability of the laboratory i	s limited to t	he an	nount	paid f	or on t	the re	eport.		12510.		12/			
										-				11					
										6	3		E		11	/ Í	ro	t C	
											-		C					LC	

## **Envirotech Analytical Laboratory**

## Sample Receipt Checklist (SRC)

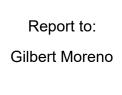
we receive	no response concerning these items within 24 hours of the c	Tate of this not	ice, an the s	ampies will be unalyzed as ree	lucsicui	
Client:	WPX Energy - Carlsbad Da	te Received:	07/24/23 0	95:30	Work Order ID:	E307118
Phone:	(539) 573-4018 Da	te Logged In:	07/21/23 1	5:40	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com Du	e Date:	07/27/23 1	7:00 (3 day TAT)		
<u>Chain of</u>	Custody (COC)					
1. Does th	he sample ID match the COC?		Yes			
2. Does the	he number of samples per sampling site location match	the COC	Yes			
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, requested	analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes		Commen	ts/Resolution
Sample T	<u>Furn Around Time (TAT)</u>					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			
<u>Sample C</u>	Cooler					
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			
12. Was th	e sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec minutes of sampling		Yes			
13. If no v	visible ice, record the temperature. Actual sample ten	nperature: 4°	С			
	Container	I				
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample containers	collected?	Yes			
Field Lab						
	field sample labels filled out with the minimum information	ation:				
	ample ID?		Yes			
	Date/Time Collected?		Yes	L		
	Collectors name?		Yes			
	Preservation		ŊŢ			
	the COC or field labels indicate the samples were prese	rved?	No			
	ample(s) correctly preserved? filteration required and/or requested for dissolved meta	1.0	NA N-			
	• •	15 /	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphase?	10	No			
27. If yes,	, does the COC specify which phase(s) is to be analyzed	17	NA			
	ract Laboratory					
	amples required to get sent to a subcontract laboratory?		No			
29. Was a	a subcontract laboratory specified by the client and if so	who?	NA	Subcontract Lab: NA		
Client Ir	nstruction					

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



envirotech Inc.

-





5796 U.S. Hwy 64 Farmington, NM 87401

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





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**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

# WPX Energy - Carlsbad

Project Name: RDX 15 - 8

Work Order: E307117

Job Number: 01058-0007

Received: 7/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/27/23

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: 7/27/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 15 - 8 Workorder: E307117 Date Received: 7/24/2023 5:30:00AM

Gilbert Moreno,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2023 5:30:00AM, under the Project Name: RDX 15 - 8.

The analytical test results summarized in this report with the Project Name: RDX 15 - 8 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Cell: 505-320-4759

ljarboe@envirotech-inc.com

**Southern New Mexico Area Lynn Jarboe** Technical Representative/Client Services Office: 505-421-LABS(5227)

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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<i>v</i>		Sample Sum	mary				
WPX Energy - Carlsbad		Project Name:	RDX 15 - 8		Donoutode		
5315 Buena Vista Dr		Project Number:	01058-0007		Reported:		
Carlsbad NM, 88220 Proje		Project Manager:	Gilbert Moreno		07/27/23 11:29		
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container		
PH04 4'	E307117-01A	Soil	07/19/23	07/24/23	Glass Jar, 2 oz.		



	Di	mpic D	ata			
WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Numbe		K 15 - 8 58-0007			Reported:
Carlsbad NM, 88220	Project Manag		ert Moreno			7/27/2023 11:29:49AM
		PH04 4'				
		E307117-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2330001
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Foluene	ND	0.0250	1	07/24/23	07/24/23	
p-Xylene	ND	0.0250	1	07/24/23	07/24/23	
o,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Fotal Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2330001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.7 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2330030
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/26/23	
Surrogate: n-Nonane		88.5 %	50-200	07/25/23	07/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2330038
Chloride	514	20.0	1	07/25/23	07/25/23	

## Sample Data



## QC Summary Data

RPD D Limit % d: 07/24/23	Reported:           7/27/2023         11:29:49AM           Analyst: IY         Notes           Analyzed:         07/24/23
D Limit %	Analyst: IY Notes
D Limit %	Notes
D Limit %	Notes
d: 07/24/23	Analyzed: 07/24/23
d: 07/24/23	Analyzed: 07/24/23
d: 07/24/23	Analyzed: 07/24/23
d: 07/24/23	Analyzed: 07/24/23
0 20	
7 20	
7 20	
2 20	
1 20	
8 20	
e e 8 3 0 5 9	ed: 07/24/23 ed: 07/24/23 80 20 37 20 07 20 52 20 91 20



# **QC Summary Data**

		QC B	umma	il y Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	DX 15 - 8 1058-0007 ilbert Moreno					<b>Reported:</b> 7/27/2023 11:29:49AM
	No	nhalogenated O	Organics	by EPA 801	5D - GI	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2330001-BLK1)							Prepared: 0	7/24/23	Analyzed: 07/24/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.66		8.00		83.2	70-130			
LCS (2330001-BS2)							Prepared: 0	7/24/23	Analyzed: 07/24/23
Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.74		8.00		84.3	70-130			
Matrix Spike (2330001-MS2)				Source: I	2307117-0	)1	Prepared: 0	7/24/23	Analyzed: 07/24/23
Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.71		8.00		83.8	70-130			
Matrix Spike Dup (2330001-MSD2)				Source: <b>H</b>	2307117-0	)1	Prepared: 0	7/24/23	Analyzed: 07/24/23
Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.0	70-130	6.86	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.69		8.00		83.7	70-130			

## QC Summary Data

		VC B		ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	C	RDX 15 - 8 01058-0007 Gilbert Moreno					<b>Reported:</b> 7/27/2023 11:29:49AM
	Nonh	alogenated Orga	anics by	v EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2330030-BLK1)							Prepared: 0	7/25/23 A	Analyzed: 07/26/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.2		50.0		80.5	50-200			
LCS (2330030-BS1)							Prepared: 0	7/25/23 A	Analyzed: 07/26/23
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	45.8		50.0		91.7	50-200			
Matrix Spike (2330030-MS1)				Source: <b>E</b>	307118-	03	Prepared: 0	7/25/23 A	Analyzed: 07/26/23
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	40.7		50.0		81.5	50-200			
Matrix Spike Dup (2330030-MSD1)				Source: <b>E</b>	307118-	03	Prepared: 0	7/25/23 A	Analyzed: 07/26/23
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132	2.05	20	
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			



## **QC Summary Data**

		QC D	umm	ary Dau	•					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX 15 - 8 01058-0007 Gilbert Moreno					<b>Reported:</b> 7/27/2023 11:29:49	PAM
-		Anions	by EPA	300.0/9056A					Analyst: BA	
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes	
Blank (2330038-BLK1)							Prepared: 0	7/25/23	Analyzed: 07/25/23	3
Chloride	ND	20.0								
LCS (2330038-BS1)							Prepared: 0	7/25/23	Analyzed: 07/25/23	3
Chloride	261	20.0	250		105	90-110				
Matrix Spike (2330038-MS1)				Source:	E307094-(	01	Prepared: 0	7/25/23	Analyzed: 07/25/23	3
Chloride	274	20.0	250	ND	110	80-120				
Matrix Spike Dup (2330038-MSD1)				Source:	E307094-(	01	Prepared: 0	7/25/23	Analyzed: 07/25/23	3
Chloride	273	20.0	250	ND	109	80-120	0.378	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 15 - 8	
I	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/27/23 11:29

ND	Analyte NOT DETECTED at or above the reporting limit
1.12	rinaryte no r beree reb at or above the reporting initi

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



ient: W	PX Energy Pe	rmian LLC	2.		10.20	Bill To		Lab Us					ly				TAT	T EPA Pro		ogram
	RDX 15-8				A	ttention: Jim Raley			WO#			Job Number			1D 2	2D 3		itandard	CWA	SDWA
	lanager: Gilbe					ddress: 5315 Buena Vista Dr.		E3	57	11-		010	580	D-	₽ L		5	day TAT		
	13000 W Cou					ty, State, Zip: Carlsbad, NM, 88	220				A	Inaly	sis and	Metho	d					RCRA
	e, Zip_Odessa 332) 541-7719		55			hone: 575-885-7502		-	o by										State	
	von-team@e		com			mail: jim.raley@dvn.com /0: N/A		-	D/OF						5			NM CO	UT AZ	TX
	by: Edyte Ko		com			icident ID: nAB1512455138			/DR(	8021	260	010	300.		MN	Ì	×			
Time			No. of		1 10		Lab	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		3			
Sampled	Date Sampled	Matrix	Containers	Sample ID			Number	Dep	TPH 801	BTE	VOC	Met	Chlo		BGL		enor		Remarks	
10:40 7/19/2023 5 1			РНО4 4'								X					Page ogram SDWA RCRA TX				
			_																	
		_																		
										-										
																	1			
												_								
ddition	al Instruction	s:		1											I					
				of this sample. I a be grounds for lega		nat tampering with or intentionally mislabe Sampled by:	ling the sample l	ocatior	n,									ved on ice the day than 6 °C on sub		
	d by: (Signature)		Date		2	Received by: (Signature)	- Date 7-20		Time	120		Rece	eived o	n ice:		b Use / N	Only			
elinquishe MUC	d by: (Signature)	unts	Date To		400	Received by: (Signature)	Date 7.U	25	Time	100		T1			T2			<u>T3</u>		
Allo	d by: (Signature)	En	Date <b>7</b> .	21.23 Z	300	Received by: (Signature)	Date 7.24.	23	Time	3	5	AVG	Temp	°c	4					
	ix: S - Soil, Sd - Soli						Containe													
						r arrangements are made. Hazardous n this COC. The liability of the laborato								the clie	nt exper	nse. Th	ie repo	rt for the ana	lysis of the	above

## **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

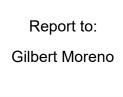
Client:	WPX Energy - Carlsbad D	ate Received:	07/24/23	05:30	Work Order ID:	E307117	
Phone:	(539) 573-4018 D	ate Logged In:	07/21/23	15:39	Logged In By:	Caitlin Mars	
Email:		Due Date:	07/27/23 17:00 (3 day TAT)				
Chain of	Custody (COC)						
1. Does tl	he sample ID match the COC?		Yes				
2. Does th	he number of samples per sampling site location match	the COC	Yes				
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: Courier			
4. Was th	e COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes				
5. Were a	Ill samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Comment	ts/Resolution	
Sample 7	<u>Furn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
12. Was th	he sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re		Yes				
12 Ifma	minutes of sampling visible ice, record the temperature. Actual sample ter		c				
		iiperature. <u>4</u>	<u>c</u>				
	Container guageus V/OC complex procent?		N				
	queous VOC samples present? /OC samples collected in VOA Vials?		No NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample containers	collected?	Yes				
Field Lal		, concettur	105				
	field sample labels filled out with the minimum inform	ation:					
	ample ID?		Yes				
	Date/Time Collected?		Yes				
C	Collectors name?		Yes				
_	Preservation						
	the COC or field labels indicate the samples were prese	erved?	No				
	ample(s) correctly preserved?	1.0	NA				
24. Is lab	filteration required and/or requested for dissolved meta	als?	No				
	ase Sample Matrix						
	the sample have more than one phase, i.e., multiphase?		No				
27. If yes	s, does the COC specify which phase(s) is to be analyze	d?	NA				
	ract Laboratory						
			No				
28. Are s	amples required to get sent to a subcontract laboratory?		140				

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



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





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# **Analytical Report**

# WPX Energy - Carlsbad

Project Name: RDX 15 - 8

E307120

Job Number: 01058-0007

Work Order:

Received: 7/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/27/23

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: 7/27/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 15 - 8 Workorder: E307120 Date Received: 7/24/2023 5:30:00AM

Gilbert Moreno,



Page 74 of 182

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2023 5:30:00AM, under the Project Name: RDX 15 - 8.

The analytical test results summarized in this report with the Project Name: RDX 15 - 8 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe Technical Representative/Client Services

Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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		Sample Sum	mary		
WPX Energy - Carlsbad		Project Name:	RDX 15 - 8		Reported:
5315 Buena Vista Dr		Project Number:	01058-0007		Keporteu:
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		07/27/23 11:31
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH05 4'	E307120-01A	Soil	07/19/23	07/24/23	Glass Jar, 2 oz.

C



		ampic D	ucu			
WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Numbe		K 15 - 8 58-0007			Reported:
Carlsbad NM, 88220	Project Manag		ert Moreno			7/27/2023 11:31:41AM
		PH05 4'				
	-	E307120-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2330001
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
o,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: 4-Bromochlorobenzene-PID		99.3 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2330001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.9 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2330030
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/26/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/26/23	
Surrogate: n-Nonane		96.6 %	50-200	07/25/23	07/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2330038
Chloride	1090	400	20	07/25/23	07/25/23	

# Sample Data



# QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 15 - 8 058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					7/27/2023 11:31:41AM
		Volatile O	rganics <b>k</b>				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 (2330001-BLK1)							Prepared: 0	7/24/23 A	nalyzed: 07/24/23
Benzene	ND	0.0250					1		•
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			
LCS (2330001-BS1)							Prepared: 0	7/24/23 A	analyzed: 07/24/23
Benzene	4.35	0.0250	5.00		87.0	70-130			
Ethylbenzene	4.54	0.0250	5.00		90.8	70-130			
Toluene	4.58	0.0250	5.00		91.7	70-130			
p-Xylene	4.72	0.0250	5.00		94.4	70-130			
p,m-Xylene	9.42	0.0500	10.0		94.2	70-130			
Total Xylenes	14.1	0.0250	15.0		94.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.11		8.00		101	70-130			
Matrix Spike (2330001-MS1)				Source:	E307117-	01	Prepared: 0	7/24/23 A	analyzed: 07/24/23
Benzene	4.42	0.0250	5.00	ND	88.5	54-133			
Ethylbenzene	4.67	0.0250	5.00	ND	93.3	61-133			
Toluene	4.70	0.0250	5.00	ND	93.9	61-130			
p-Xylene	4.86	0.0250	5.00	ND	97.1	63-131			
p,m-Xylene	9.66	0.0500	10.0	ND	96.6	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130			
Matrix Spike Dup (2330001-MSD1)					E307117-				analyzed: 07/24/23
Benzene	4.42	0.0250	5.00	ND	88.3	54-133	0.180	20	
Ethylbenzene	4.68	0.0250	5.00	ND	93.7	61-133	0.337	20	
Toluene	4.70	0.0250	5.00	ND	94.0	61-130	0.107	20	
p-Xylene	4.86	0.0250	5.00	ND	97.3	63-131	0.152	20	
p,m-Xylene	9.71	0.0500	10.0	ND	97.1	63-131	0.491	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.1	63-131	0.378	20	

## **QC Summary Data**

		QC B	umma	il y Dala					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name:RDX 15 - 8Project Number:01058-0007Project Manager:Gilbert Moreno							<b>Reported:</b> 7/27/2023 11:31:41AM
	No	nhalogenated O	Organics	by EPA 801	5D - GI	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2330001-BLK1)							Prepared: 0	7/24/23	Analyzed: 07/24/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.66		8.00		83.2	70-130			
LCS (2330001-BS2)							Prepared: 0	7/24/23	Analyzed: 07/24/23
Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.74		8.00		84.3	70-130			
Matrix Spike (2330001-MS2)				Source: I	E <b>307117-</b> (	)1	Prepared: 0	7/24/23	Analyzed: 07/24/23
Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.71		8.00		83.8	70-130			
Matrix Spike Dup (2330001-MSD2)				Source: I	E307117-0	)1	Prepared: 0	7/24/23	Analyzed: 07/24/23
Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.0	70-130	6.86	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.69		8.00		83.7	70-130			

### QC Summary Data

		QC SI	umm	aly Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX 15 - 8 1058-0007 Gilbert Moreno					<b>Reported:</b> 7/27/2023 11:31:41AM
	Nonh	alogenated Orga	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2330030-BLK1)							Prepared: 0	7/25/23 A	Analyzed: 07/26/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.2		50.0		80.5	50-200			
LCS (2330030-BS1)							Prepared: 0	7/25/23 A	Analyzed: 07/26/23
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	45.8		50.0		91.7	50-200			
Matrix Spike (2330030-MS1)				Source: F	307118-	03	Prepared: 0	7/25/23 A	Analyzed: 07/26/23
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	40.7		50.0		81.5	50-200			
Matrix Spike Dup (2330030-MSD1)				Source: <b>E</b>	307118-	03	Prepared: 0	7/25/23 A	Analyzed: 07/26/23
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132	2.05	20	
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			



### **QC Summary Data**

WPX Energy - Carlsbad		Project Name:	R	DX 15 - 8					Reported:
5315 Buena Vista Dr	Project Number:	0	1058-0007						
Carlsbad NM, 88220		Project Manager	: G	ilbert Moreno					7/27/2023 11:31:41AM
		Anions	by EPA 3	300.0/9056A	۱.				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 (2330038-BLK1)							Prepared: 0	7/25/23	Analyzed: 07/25/23
Chloride	ND	20.0							
LCS (2330038-BS1)							Prepared: 0	7/25/23	Analyzed: 07/25/23
Chloride	261	20.0	250		105	90-110			
Matrix Spike (2330038-MS1)				Source:	E307094-(	)1	Prepared: 0	7/25/23	Analyzed: 07/25/23
Chloride	274	20.0	250	ND	110	80-120			
Matrix Spike Dup (2330038-MSD1)				Source:	E307094-(	)1	Prepared: 0	7/25/23	Analyzed: 07/25/23
Chloride	273	20.0	250	ND	109	80-120	0.378	20	

QC Summary Report Comment:

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



WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/27/23 11:31

ND	Analyte NOT DETECTED at or above the reporting limit
1.12	inalyte no r bbrbe rbb at or above the reporting initi

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

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

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



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Reproject Ir	formation					Chair	n of Custody	/													Page rogram SDWA RCRA TX	1 of	
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Project: I	PX Energy Pe	rmian LLG	<b>.</b>		Bill To						se Only							andard	CWA	SDWA	by		
	Anager: Gilbe	ort More	20			tention: Jim Raley ddress: 5315 Buena Vista Dr.		Lab WO#					Job Number				50		lay TAT	CVVA	SUVVA		
	13000 W Cou					ty, State, Zip: Carlsbad, NM, 882	220		L	10		Analy		nd Met	bod						RCRA		
						ione: 575-885-7502	220		>								1		10		Rena	1 8	
	State, Zip_Odessa,TX, 79765 e: (832) 541-7719					nail: jim.raley@dvn.com		1	RO b									1		State			
	: Devon-team@etechenv.com					O: N/A		-	10/0				0			5		1 1	NM CO		TX		
	ected by: Edyte Konan					cident ID: nAB1512455138		-	DRO	/DRO	:021	260	010	300.		VIV		¥			UT AL		1 5
Time	by: Edyte no			1	111	cident ID: 11AB1512455158	Lab	h(ft.	GRO	by 8	by 8	ls 6(	ide		2	3	U		l		L		
Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0				GDOC			Remarks			
10:50	7/19/2023	S	1			PH05		4'	$\left  \right $					_	)	(						EM	
																						Page 11 of 12	
Addition	al Instruction	IS:																				-	
NG 81 - 335	oler), attest to the of collection is cor					at tampering with or intentionally mislabell Sampled by:	ing the sample	ocatic	on,										on ice the day an 6 °C on sub:		pled or		
	ed by: (Signature	)	Date	D/2023	ne 1:20 ne	Received by: (Signature) MUCULL Guyls Received by: (Signature)	Date 7-20 Date	-21	Time 14 Time	12	0	Rec	eived	on ice	e: (	Lab U	Jse Or N	nly					
AMIC	tille &	with	7.	21.2	1400	Merer Musso	7.21	.23		160	)	<u>T1</u>			_ <u>T</u> 2	2			<u>T3</u>				
Mon		1050		21.23	300	Received by: (Signature)	Date 724 Containe	22	5	3			i Tem	11111111111	4	alace	<u> </u>	10					
	rix: <b>S</b> - Soil, <b>Sd</b> - Sol			Contract International Contract	inless other	arrangements are made. Hazardous													for the ana	lysis of the	above		
						this COC. The liability of the laborator								i ine c	ence/	pense	iner	sport	.or the und	., 515 01 112		ra	
											(	Y			9	n	V	i	ro	te	above	10 10 182	

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

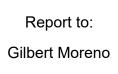
Client:	WPX Energy - Carlsbad I	Date Received:	07/24/23	05:30	Work Order ID:	E307120
Phone:	(539) 573-4018 I	Date Logged In:	07/21/23	15:43	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	07/27/23	17:00 (3 day TAT)		
Chain of	f Custody (COC)					
1. Does t	the sample ID match the COC?		Yes			
2. Does t	the number of samples per sampling site location matcl	h the COC	Yes			
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	ne COC complete, i.e., signatures, dates/times, requeste	ed analyses?	Yes			
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in t i.e, 15 minute hold time, are not included in this disucssion		Yes		Commen	ts/Resolution
Sample '	<u>Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (	Cooler					
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
12. Was th	he sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are r		Yes			
10 10	minutes of sampling		~			
13. If no	visible ice, record the temperature. Actual sample te	emperature: <u>4</u> °	<u>C</u>			
-	Container					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?	11 . 10	Yes			
	appropriate volume/weight or number of sample containe	rs collected?	Yes			
Field La						
	field sample labels filled out with the minimum inform Sample ID?	nation:	Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
Sample ]	Preservation					
21. Does	the COC or field labels indicate the samples were pres	served?	No			
22. Are s	sample(s) correctly preserved?		NA			
24. Is lab	o filteration required and/or requested for dissolved me	tals?	No			
<u>Multiph</u>	ase Sample Matrix					
26. Does	the sample have more than one phase, i.e., multiphase	?	No			
27. If yes	s, does the COC specify which phase(s) is to be analyz	ed?	NA			
Subconf	ract Laboratory					
28. Are s	samples required to get sent to a subcontract laboratory a subcontract laboratory specified by the client and if s		No NA			

Date



envirotech Inc.

Released to Imaging: 10/17/2023 11:47:15 AM





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 15 - 8

Work Order:	E309100

Job Number: 01058-0007

Received: 9/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/20/23

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: 9/20/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 15 - 8 Workorder: E309100 Date Received: 9/13/2023 8:15:00AM

Gilbert Moreno,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/13/2023 8:15:00AM, under the Project Name: RDX 15 - 8.

The analytical test results summarized in this report with the Project Name: RDX 15 - 8 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Envirotech Web Address: www.envirotech-inc.com

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#### **Sample Summary**

		Sample Sum	mary		
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	RDX 15 - 8 01058-0007 Gilbert Moreno		<b>Reported:</b> 09/20/23 16:16
lient Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
501 4'	E309100-01A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
502 4'	E309100-02A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
503 4'	E309100-03A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
504 4'	E309100-04A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
\$05 4'	E309100-05A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
506 4'	E309100-06A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
507 4'	E309100-07A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
508 4'	E309100-08A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
509 4'	E309100-09A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S10 4'	E309100-10A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S11 4'	E309100-11A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S12 4'	E309100-12A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S13 4'	E309100-13A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S14 4'	E309100-14A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S15 4'	E309100-15A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S16 4'	E309100-16A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S17 4'	E309100-17A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
518 4'	E309100-18A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
519 4'	E309100-19A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
520 4'	E309100-20A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.



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WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Numbe		RDX 15 - 8 01058-0007			Reported:
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moreno			9/20/2023 4:16:23PM
		FS01 4'				
	-	E309100-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
o,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: 4-Bromochlorobenzene-PID		92.6 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.9 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
urrogate: n-Nonane		96.7 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: RAS		Batch: 2338004
Chloride	2370	400	20	09/18/23	09/19/23	

## Sample Data



	3	ample D	ata			
WPX Energy - Carlsbad	Project Name		K 15 - 8			
5315 Buena Vista Dr	Project Numb	ber: 0103	58-0007		Reported:	
Carlsbad NM, 88220	Project Mana	iger: Gilb	ert Moreno			9/20/2023 4:16:23PM
		FS02 4'				
		E309100-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: IY		Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: 4-Bromochlorobenzene-PID		92.0 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: IY		Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.8 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		90.8 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: RAS		Batch: 2338004
Chloride	1100	400	20	09/18/23	09/19/23	



	3	ample D	ata			
WPX Energy - Carlsbad	Project Name		K 15 - 8			
5315 Buena Vista Dr	Project Numb		58-0007		Reported:	
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			9/20/2023 4:16:23PM
		FS03 4'				
		E309100-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: IY		Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: IY		Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.6 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		93.4 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: RAS		Batch: 2338004
Chloride	2470	400	20	09/18/23	09/19/23	



	3	ample D	ata			
WPX Energy - Carlsbad	Project Name		K 15 - 8			
5315 Buena Vista Dr	Project Numb	ber: 0105	58-0007		Reported:	
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno			9/20/2023 4:16:23PM
		FS04 4'				
		E309100-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	:: IY		Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: 4-Bromochlorobenzene-PID		92.2 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	:: IY		Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.9 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	:: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		98.7 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: RAS		Batch: 2338004
Chloride	1100	400	20	09/18/23	09/19/23	



		ample D	ata			
WPX Energy - Carlsbad	Project Name	e: RDZ	K 15 - 8			
5315 Buena Vista Dr	Project Num	ber: 0103	58-0007		Reported:	
Carlsbad NM, 88220	Project Mana	ager: Gilb	ert Moreno			9/20/2023 4:16:23PM
		FS05 4'				
		E309100-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: IY		Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: 4-Bromochlorobenzene-PID		92.4 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: IY		Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.1 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		88.0 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: RAS		Batch: 2338004
Chloride	994	400	20	09/18/23	09/19/23	

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WPX Energy - Carlsbad	Project Name:	RD	K 15 - 8			
5315 Buena Vista Dr	Project Number	er: 0103	01058-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			9/20/2023 4:16:23PM
		FS06 4'				
		E309100-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	:: IY		Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
p-Xylene	ND	0.0250	1	09/13/23	09/14/23	
o,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Fotal Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: 4-Bromochlorobenzene-PID		91.9 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	:: IY		Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.6 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	:: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		86.4 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: RAS		Batch: 2338004
Chloride	1810	400	20	09/18/23	09/19/23	



	3	ample D	ata			
WPX Energy - Carlsbad	Project Name		X 15 - 8			
5315 Buena Vista Dr	Project Numb		58-0007		Reported:	
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno			9/20/2023 4:16:23PM
		FS07 4'				
		E309100-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: 4-Bromochlorobenzene-PID		92.5 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: IY		Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.1 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		92.3 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: RAS		Batch: 2338004
Chloride	998	400	20	09/18/23	09/19/23	



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WPX Energy - Carlsbad	Project Name	: RDZ	K 15 - 8			
5315 Buena Vista Dr	Project Numb	er: 0105	58-0007		Reported:	
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			9/20/2023 4:16:23PM
		FS08 4'				
		E309100-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst		Batch: 2337066	
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
o,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Fotal Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: 4-Bromochlorobenzene-PID		91.1 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.2 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	:: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		86.6 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: RAS		Batch: 2338004
Chloride	1180	400	20	09/18/23	09/19/23	

	3	ample D	ata			
WPX Energy - Carlsbad	Project Name	: RD2	X 15 - 8			
5315 Buena Vista Dr	Project Numb	oer: 0105	58-0007		Reported:	
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			9/20/2023 4:16:23PM
		FS09 4'				
		E309100-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	Batch: 2337066		
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
o,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
urrogate: 4-Bromochlorobenzene-PID		91.8 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: IY			Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.1 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: JL			Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
urrogate: n-Nonane		89.0 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: RAS		Batch: 2338004
Chloride	937	400	20	09/18/23	09/19/23	

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WPX Energy - Carlsbad	Project Name:	RDZ	K 15 - 8			
5315 Buena Vista Dr	Project Number	er: 0105	58-0007	Reported:		
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Moreno			9/20/2023 4:16:23PM
		FS10 4'				
		E309100-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	xg Analyst: IY			Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
o,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: 4-Bromochlorobenzene-PID		90.9 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: IY			Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.7 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: JL		Batch: 2337102	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		73.8 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	: RAS		Batch: 2338004
Chloride	1640	400	20	09/18/23	09/19/23	



	3	ample D	ลเล			
WPX Energy - Carlsbad	Project Name	: RD2	X 15 - 8			
5315 Buena Vista Dr	Project Numb	oer: 0105	58-0007		Reported:	
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			9/20/2023 4:16:23PM
		FS11 4'				
		E309100-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Batch: 2337066		
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
oluene	ND	0.0250	1	09/13/23	09/14/23	
-Xylene	ND	0.0250	1	09/13/23	09/14/23	
o,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Fotal Xylenes	ND	0.0250	1	09/13/23	09/14/23	
urrogate: 4-Bromochlorobenzene-PID		91.7 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		84.5 %	70-130	09/13/23	09/14/23	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
urrogate: n-Nonane		89.1 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: RAS		Batch: 2338004
Chloride	595	20.0	1	09/18/23	09/19/23	

	5	ample D	ala			
WPX Energy - Carlsbad	Project Name	: RD2	X 15 - 8			
5315 Buena Vista Dr	Project Numb	oer: 0103	58-0007	Reported:		
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			9/20/2023 4:16:23PM
		FS12 4'				
		E309100-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Batch: 2337066		
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
o,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: 4-Bromochlorobenzene-PID		92.6 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: IY			Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.7 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g/kg Analyst: JL			Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		88.8 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2338004
Chloride	2310	400	20	09/18/23	09/19/23	



	5	ample D	ala			
WPX Energy - Carlsbad	Project Name	: RD2	X 15 - 8			
5315 Buena Vista Dr	Project Numb	er: 010:	58-0007	Reported:		
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			9/20/2023 4:16:23PM
		FS13 4'				
		E309100-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	g Analyst: IY			Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
p-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: 4-Bromochlorobenzene-PID		93.0 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.8 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	ng/kg Analyst: JL			Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		91.2 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: RAS		Batch: 2338004
Chloride	954	400	20	09/18/23	09/19/23	



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WPX Energy - Carlsbad	Project Name:	RDZ	K 15 - 8			
5315 Buena Vista Dr	Project Numbe	er: 010:	58-0007		Reported:	
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			9/20/2023 4:16:23PM
		FS14 4'				
		E309100-14				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst		Batch: 2337066	
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
o,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
urrogate: 4-Bromochlorobenzene-PID		92.9 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.4 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	:g Analyst: JL		Batch: 2337102	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
urrogate: n-Nonane		90.0 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: RAS		Batch: 2338004
Chloride	2150	400	20	09/18/23	09/19/23	



	D.	ample D	ata			
WPX Energy - Carlsbad	Project Name:	RD2	K 15 - 8			
5315 Buena Vista Dr	Project Numb	er: 0103	58-0007	Reported:		
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			9/20/2023 4:16:23PM
		FS15 4'				
		E309100-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	/kg Analyst: IY			Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
p-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: 4-Bromochlorobenzene-PID		92.2 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: IY		Batch: 2337066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.7 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: JL		Batch: 2337102	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		91.9 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	: RAS		Batch: 2338004
Chloride	963	400	20	09/18/23	09/19/23	



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WPX Energy - Carlsbad	Project Name:		X 15 - 8			
5315 Buena Vista Dr	Project Numb		58-0007		Reported:	
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			9/20/2023 4:16:23PM
		FS16 4'				
		E309100-16				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	g Analyst: IY			Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Foluene	ND	0.0250	1	09/13/23	09/14/23	
p-Xylene	ND	0.0250	1	09/13/23	09/14/23	
o,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Fotal Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: 4-Bromochlorobenzene-PID		92.7 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.2 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g/kg Analyst: JL		Batch: 2337102	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		91.1 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2338004
Chloride	2060	400	20	09/18/23	09/19/23	
Chloride	2060	400	20	09/18/23	09/19/23	



	S	ample D	ata			
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name Project Numb Project Mana	ber: 0105	K 15 - 8 58-0007 ert Moreno			<b>Reported:</b> 9/20/2023 4:16:23PM
		FS17 4'				
		E309100-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys		Batch: 2337066	
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: 4-Bromochlorobenzene-PID		93.8 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	kg Analyst: IY			Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.9 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		88.1 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: RAS		Batch: 2338004
Chloride	805	20.0	1	09/18/23	09/19/23	



	D.	ample D	ala			
WPX Energy - Carlsbad	Project Name:	RDZ	X 15 - 8			
5315 Buena Vista Dr	Project Number	er: 0103	58-0007		Reported:	
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			9/20/2023 4:16:23PM
		FS18 4'				
		E309100-18				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
p-Xylene	ND	0.0250	1	09/13/23	09/14/23	
o,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Fotal Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: 4-Bromochlorobenzene-PID		94.0 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	, Analyst: IY		Batch: 2337066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.2 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	ng/kg Analyst: JL			Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		89.3 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2338004
Chloride	935	400	20	09/18/23	09/19/23	

	5	ampie D	ala			
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 0103	K 15 - 8 58-0007 ert Moreno			<b>Reported:</b> 9/20/2023 4:16:23PM
		FS19 4'				
		E309100-19				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337066
Benzene	ND	0.0500	2	09/13/23	09/14/23	
Ethylbenzene	ND	0.0500	2	09/13/23	09/14/23	
foluene	ND	0.0500	2	09/13/23	09/14/23	
p-Xylene	ND	0.0500	2	09/13/23	09/14/23	
o,m-Xylene	ND	0.100	2	09/13/23	09/14/23	
Fotal Xylenes	ND	0.0500	2	09/13/23	09/14/23	
Surrogate: 4-Bromochlorobenzene-PID		93.8 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Gasoline Range Organics (C6-C10)	ND	40.0	2	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.5 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g/kg Analyst: JL			Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		92.2 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	: RAS		Batch: 2338004
Chloride						

	S	ample D	ata			
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name Project Numb Project Mana	ber: 0105	X 15 - 8 58-0007 ert Moreno			<b>Reported:</b> 9/20/2023 4:16:23PM
		FS20 4'				
		E309100-20				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	:: IY		Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: 4-Bromochlorobenzene-PID		93.4 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	:: IY		Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.1 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	:: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		90.6 %	50-200	09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: RAS		Batch: 2338004
Chloride	910	400	20	09/18/23	09/20/23	



# QC Summary Data

		QU DI		ing Dun					
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 15 - 8 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					9/20/2023 4:16:23PM
		Volatile O	rganics <b>k</b>	by EPA 802	1 <b>B</b>				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 (2337066-BLK1)							Prepared: 0	9/13/23 A	Analyzed: 09/14/23
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	7.20	0.0250	8.00		90.0	70-130			
LCS (2337066-BS1)							Prepared: 0	9/13/23 A	Analyzed: 09/14/23
Benzene	4.69	0.0250	5.00		93.8	70-130			
Ethylbenzene	4.57	0.0250	5.00		91.4	70-130			
Toluene	4.73	0.0250	5.00		94.5	70-130			
o-Xylene	4.67	0.0250	5.00		93.5	70-130			
p,m-Xylene	9.48	0.0500	10.0		94.8	70-130			
Total Xylenes	14.2	0.0250	15.0		94.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.6	70-130			
Matrix Spike (2337066-MS1)				Source:	E309100-	02	Prepared: 0	9/13/23 A	Analyzed: 09/14/23
Benzene	4.91	0.0250	5.00	ND	98.2	54-133			
Ethylbenzene	4.78	0.0250	5.00	ND	95.6	61-133			
Toluene	4.94	0.0250	5.00	ND	98.9	61-130			
o-Xylene	4.88	0.0250	5.00	ND	97.6	63-131			
p,m-Xylene	9.87	0.0500	10.0	ND	98.7	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.8	70-130			
Matrix Spike Dup (2337066-MSD1)				Source:	E309100-	02	Prepared: 0	9/13/23 A	Analyzed: 09/14/23
Benzene	4.78	0.0250	5.00	ND	95.5	54-133	2.78	20	
Ethylbenzene	4.66	0.0250	5.00	ND	93.1	61-133	2.60	20	
-	4.81	0.0250	5.00	ND	96.3	61-130	2.67	20	
Toluene						(2,121	2.51	20	
Toluene o-Xylene	4.76	0.0250	5.00	ND	95.2	63-131	2.31	20	
		0.0250 0.0500	5.00 10.0	ND ND	95.2 96.4	63-131 63-131	2.31	20 20	
o-Xylene	4.76								



## **QC Summary Data**

		QU N		ary Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	2DX 15 - 8 1058-0007 Gilbert Moreno					<b>Reported:</b> 9/20/2023 4:16:23PM
Carisbau NM, 88220		Floject Mallagel.	Ĺ	Jubert Moreno					9/20/2025 4.10.251 WI
	No	nhalogenated C	rganics	by EPA 801	5D - G	RO			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 (2337066-BLK1)							Prepared: 0	9/13/23 A	analyzed: 09/14/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.83		8.00		85.3	70-130			
LCS (2337066-BS2)							Prepared: 0	9/13/23 A	analyzed: 09/14/23
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.3	70-130			
Matrix Spike (2337066-MS2)				Source: H	309100-	02	Prepared: 0	9/13/23 A	analyzed: 09/14/23
Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.88		8.00		86.0	70-130			
Matrix Spike Dup (2337066-MSD2)				Source: H	309100-	02	Prepared: 0	9/13/23 A	analyzed: 09/14/23
Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.7	70-130	3.55	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.93		8.00		86.6	70-130			



## QC Summary Data

		QU DI		ary Data	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX 15 - 8 1058-0007 Gilbert Moreno					<b>Reported:</b> 9/20/2023 4:16:23PM
Calisbau IVII, 66220	Nonh	alogenated Orga			- DRO	/ORO			Analyst: JL
	TOM		unies by		DRO	iono			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 (2337102-BLK1)							Prepared: 0	9/15/23 A	analyzed: 09/16/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.0		50.0		106	50-200			
LCS (2337102-BS1)							Prepared: 0	9/15/23 A	analyzed: 09/16/23
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			
Matrix Spike (2337102-MS1)				Source: H	E309100-	05	Prepared: 0	9/15/23 A	analyzed: 09/16/23
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	41.7		50.0		83.4	50-200			
Matrix Spike Dup (2337102-MSD1)				Source: I	E <b>309100-</b>	05	Prepared: 0	9/15/23 A	analyzed: 09/16/23
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132	0.696	20	
Surrogate: n-Nonane	40.9		50.0		81.9	50-200			



## **QC Summary Data**

		$\mathbf{x} \in \mathbf{z}$	••••••						
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	DX 15 - 8 1058-0007 filbert Moreno					<b>Reported:</b> 9/20/2023 4:16:23PM
		Anions	by EPA	300.0/9056	4				Analyst: RAS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2338004-BLK1)							Prepared: 0	9/18/23	Analyzed: 09/19/23
Chloride LCS (2338004-BS1)	ND	20.0					Prepared: 0	9/18/23 /	Analyzed: 09/19/23
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2338004-MS1)				Source:	E309100-	)1	Prepared: 0	9/18/23	Analyzed: 09/19/23
Chloride	2900	400	250	2370	213	80-120			M5
Matrix Spike Dup (2338004-MSD1)				Source:	E309100-	01	Prepared: 0	9/18/23	Analyzed: 09/19/23
Chloride	3380	400	250	2370	405	80-120	15.2	20	M5

QC Summary Report Comment:

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



		Demitions		
ſ	WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	
	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/20/23 16:16

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

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



lient: W	/PX Energy Pe	rmian LL	C.			Bill To	-	25.4		La	b Use	Onl	v			1	TAT		EPA P	rogram
the second s	RDX 15-8				Attention: Jim F	we wanted a second s		Lab	WO#				lumber	and the	1D 2			andard	CWA	SDWA
roject N	Manager: Gilbe	ert More	no		Address: 5315 E			F3	09	100			58.00					ay TAT	-	
ddress:	13000 W Cou	inty Rd 1	00		City, State, Zip:	Carlsbad, NM, 8822	20	- tem					is and Me							RCRA
ity, Stat	te, Zip_Odessa	a,TX, 797	65		Phone: 575-885	-7502			λq											
hone: (	832)541-7719				Email: jim.raley	@dvn.com			ORO										State	-
	evon-team@e		com		WO: 21204777				RO/	11	0		0.0		MN	×	[	NM CO	UT AZ	TX
ollected	d by: Edyte Ko	nan			Incident ID: nAE	31512455138		ft.)	d/0	/ 80	826	601	e 30			Ĭ				1
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	GDOC			Remarks	
8:50	9/11/2023	S	1		FS01		1	4'							x					
9:00	9//11/2023	S	1		FS02		2	4'						-	x					
9:10	9/11/2023	S	1		FS03		3	4'							х					
9:20	9//11/2024	S	1		FS04		4	4'							х				And the second second	
9:30	9/11/2023	S	1		FS05		5	4'							х	_				
9:40	9//11/2025	S	1		FS06		4	4'							X					
9:50	9/11/2023	S	1		FS07		7	4'							X	_				
10:00	9//11/2026	S	1		FS08		8	4'							X	_				
10:10	9/11/2023	S	1		FS09		9	4'							X	-				- 21
10:20	9//11/2027 al Instruction	S	1	1.1	FS10		10	4'							X					
uuntion		5.																		
				of this sample. I am be grounds for legal :	aware that tampering with action. Sa	or intentionally mislabellin mpled by:	g the sample lo	ocation	,									on ice the day in 6 °C on sub		
elinquish	ed by: (Signature	)	Date D9	1212023 DBL	BOD Received by:	(Signature)	Date 9-12	-23	Time	800		Rece	ived on i	ce:	Lab	Use O N	Inly			
elinguish Mucl	ed by: (Signature		Date 9-	-12-23 16	Received by:	(Signature)	Date 9.17.	23	Time /c	Got	-	Г1			T2			<u>T3</u>		
	ed by: (Signature	mis	Date Q.	13.23 C	130 Received by:	(Signature) h Mac	Date 9./3.2	13	Time	: 15	-	AVG	Temp °C	4	£					
ample Mat	trix: S - Soil, Sd - Sol			ous, O - Other			Containe	r Type				ly/pl	astic, ag -	amb	er glass	, v - VC	A			

Reference Information

Client: V	VPX Energy Pe	rmian LLC	C.			Bill To	24	S. Sand		La	b Use	On	ly				TAT	F	EPA P	rogram
Project:	RDX 15-8				Att	ention: Jim Raley	2331	Lab	WO#			Job I	Numbe		1D :	2D	3D	Standard	CWA	SDWA
	Manager: Gilb				Add	ress: 5315 Buena Vista Dr.	07.2	E3	509	10	0	OK	58.	2007				5 day TAT		
	13000 W Cou					, State, Zip: Carlsbad, NM, 8	38220		_		A	naly	sis and	Metho	d					RCRA
	te, Zip_Odess		55			one: 575-885-7502	Ball .		yd O											
	832)541-7719 evon-team@e		com			ail: jim.raley@dvn.com			/OR										State	
	d by: Edyte Ko		COM			dent ID: nAB1512455138			DRC	021	260	10	000.0		MN		ž	NM CO	UT AZ	TX
Time			No. of		Inci	dent ID: NAB1512455158	Lab	h(ft.)	GRO/	by 8	by 8.	ls 60	ide		ы		υ	l		
Sampled	Date Sampled	Matrix	Containers	Sample ID			Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	
10:30	9/11/2023	S	1			FS11	11	4'							x					
10:40	9//11/2023	S	1			FS12	12	4'							x					
10:50	9/11/2023	S	1			FS13	13	4'							x					
11:00	9//11/2024	S	1			FS14	14	4'							x				100-0110-00-00100	
11:10	9/11/2023	S	1			FS15	15	4'							x					
11:20	9//11/2025	S	1			FS16	16	4'							x					
11:30	9/11/2023	S	1			FS17	17	4'							x					
11:40	9//11/2026	S	1			FS18	18	4'							x					
11:50	9/11/2023	S	1			FS19	19	4'							x					
12:00	9//11/2027	S	1			FS20	20	4'							x					
Addition	al Instruction	is:					-													-
				of this sample. I am a grounds for legal a		tampering with or intentionally mislal Sampled by:	belling the sample lo	ocation										eived on ice the day ss than 6 °C on sub	S S	pled or
{elinquish	ed by: (Signature	2)	Date D9	12 12023 Time	£00	Received by: (Signature	L Date 9-12-	23	Time	80	0	Rece	eived o	n ice:	Lal		e Only	1		
Auc	ed by: (Signature	uss		DJ3 16	00	Received by: (Signature)	Date 9.12	23	Time	900	2	T1			<u>T2</u>			<u>T3</u>		
telinquish	ed by: (Signature	10000	Pate 9.	13.23 Ol	30	auth Ma	- 9.13:2	?3	Time 8	:15	-	AVG	Temp	°c_4	<u>t</u>					
	rix: <b>S</b> - Soil, <b>Sd</b> - So						Containe													
						rrangements are made. Hazardo his COC. The liability of the labora								ne clien	t expen	se. T	he rep	ort for the ana	lysis of the	above

## **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

lient:	WPX Energy - Carlsbad D	ate Received:	09/13/23 08	3:15	Work Order ID: E309100
Phone:	(539) 573-4018 D	ate Logged In:	09/12/23 14	l:40	Logged In By: Caitlin Mars
Email:		le Date:	09/19/23 17	7:00 (4 day TAT)	
Chain o	of Custody (COC)				
	the sample ID match the COC?		Yes		
2. Does	the number of samples per sampling site location match	the COC	Yes		
3. Were	samples dropped off by client or carrier?		Yes	Carrier: C	Courier
4. Was t	he COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes	_	
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Comments/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>				
6. Did th	he COC indicate standard TAT, or Expedited TAT?		Yes		Project RDX 15-8 has been separated into
Sample	Cooler				2 reports due to sample volume.
7. Was a	a sample cooler received?		Yes		Workorders are as follows: E309100 &
8. If yes	, was cooler received in good condition?		Yes		E309101.
9. Was t	he sample(s) received intact, i.e., not broken?		Yes		
10. Were	e custody/security seals present?		No		
11. If ye	es, were custody/security seals intact?		NA		
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re minutes of sampling		Yes		
13. If no	visible ice, record the temperature. Actual sample ter	nperature: 4°	С		
	Container	I			
	aqueous VOC samples present?		No		
	VOC samples collected in VOA Vials?		NA		
	e head space less than 6-8 mm (pea sized or less)?		NA		
	a trip blank (TB) included for VOC analyses?		NA		
	non-VOC samples collected in the correct containers?		Yes		
	e appropriate volume/weight or number of sample containers	collected?	Yes		
19. Is the					
19. Is the Field La	abel				
Field La	abel e field sample labels filled out with the minimum inform	ation:			
Field La 20. Were	e field sample labels filled out with the minimum inform Sample ID?	ation:	Yes		
Field La 20. Were	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected?	ation:	Yes		
Field La 20. Were	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name?	ation:			
Field La 20. Were 3 3 5 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u><b>Preservation</b></u>		Yes Yes		
Field La 20. Were 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were press		Yes Yes No		
Field La 20. Were Sample 21. Does 22. Are	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved?	prved?	Yes Yes No NA		
Field La 20. Were 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta	prved?	Yes Yes No		
Field La 20. Were Sample 21. Doc: 22. Are 24. Is lai Multiph	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were press sample(s) correctly preserved? b filteration required and/or requested for dissolved meta <u>nase Sample Matrix</u>	erved? .ls?	Yes Yes No NA No		
Sample           21. Doe:           22. Are           24. Is lai           Multiph           26. Doe:	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were press sample(s) correctly preserved? b filteration required and/or requested for dissolved meta <u>nase Sample Matrix</u> s the sample have more than one phase, i.e., multiphase?	erved? ıls?	Yes Yes No No No		
Sample           21. Does           22. Are           24. Is lai           Multiph           26. Does           27. If ye	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta <u>mase Sample Matrix</u> s the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyze	erved? ıls?	Yes Yes No NA No		
Field La 20. Were Sample 21. Does 22. Are 24. Is lai Multiph 26. Does 27. If ye	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta <u>hase Sample Matrix</u> s the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyze <u>tract Laboratory</u>	erved? ils? d?	Yes Yes No No No		
Field La 20. Were 30. Were 20. Were 21. Does 22. Are 24. Is lai Multiph 26. Does 27. If ye Subcom 28. Are	e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? b filteration required and/or requested for dissolved meta <u>mase Sample Matrix</u> s the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyze	erved? ds? d?	Yes Yes No NA No NA No	Subcontract Lab	

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



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**Project Information** 

Chain of Custody

**Bill To** 

**EPA Program** 

Received by Oc

Project: I				terre in a summer	Atte	ntion: Jim Raley		Contract (	Lab	WO#				Numl			2D	3D	Sta	andard	CWA	SDWA	2
	Aanager: Gilb		and the second s		A REAL PROPERTY AND ADDRESS OF	ress: 5315 Buena Vista I	11(12) /iv		IE3	209	100		010	So.	0007				5 d	ay TAT			
	13000 W Cou				City,	State, Zip: Carlsbad, NI	M, 8822	0				A	analy	sis an	d Meth	bd						RCRA	9/2
	e, Zip_Odess		65		Pho	ne: 575-885-7502				by (													%
	832)541-7719				Ema	il: jim.raley@dvn.com				ORO							1				State		20
	evon-team@e		com		WO:	21204777				RO/	12	0	0	0.0		WN		×	1	NM CO	UT AZ	TX	<b>3</b>
Collected	d by: Edyte Ko	nan			Incic	lent ID: nAB151245513	8		F	a/o	/ 80.	826	601	e 30				¥					1:6
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC			Remarks		CD: 9/29/2023 1:08:59 PM
8:50	9/11/2023	5	1			FS01		1	4'							X				Corre	ected		PM
9:00	9//11/2023	S	1			FS02		2	4'							X				Sam	ple (	lates	
9:10	9/11/2023	S	1			FS03		3	4'							X				per	Gil	Dert	
9:20	9//11/2024	S	1			FSO4		4	4'							X				'9/1	8/23	CM	
9:30	9/11/2023	S	1			FS05		5	4'							X							
9:40	9//11/2025	S	1			FS06		4	4'							X						N. And	
9:50	9/11/2023	S	1			FS07		7	4'							X							
10:00	9//11/2026	S	1			FS08		8	4'							X							
10:10	9/11/2023	S	1	Star de la		FS09		9	4'							X				and the			
10:20	9//11/2027	S	1			FS10		10	4'							X							
Addition	nal Instruction	ns:													No. and								
1050495.0076178-0.064		- Filler March 1990 Aug	Supply and a list	of this sample. 1 ar be grounds for legal		tampering with or intentionally i Sampled by:	mislabelling	g the sample l	location	4										on ice the day n 6 °C on sub			
Relinquish	ed by: (Signature	e)	Date D		BOD	Received by: (Signature)	ul	Date	-23	Time	800	2	Rece	eived	on ice:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		se On	ly			andra an	
Relinquish	ula Cu	en la	Date	-12-23 1	600	Received by: (Signature)	50	Date 9.17.	23	Time /c	TOD		T1			T2				тз			
	ed by: (Signature)	re	Date 9./3.	23	Time	: 19	5	AVG	Tem	p °C_	4												
Sample Ma	trix: S - Soil, Sd - So		Containe	er Type							nber g	lass, v	- VO/	4									
	ples are discarde		mples will b	e retur	ned to	o clien	t or di	spose	ed of a	the second s					or the ana	ysis of the	above						
samples is	applicable only	boratory i	s limited to	the an	nount	paid f	or on t	the re	eport.		-		1	2.1		1.2		ag					
												1	- 1			-			•		L		e .
													3		· F	3	71	V		0	TE	;C	Page 118
												-	and the second		aller aller								

Lab Use Only

TAT

Project Information

Released to Imaging: 10/17/2023 11:47:15 AM

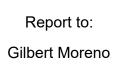
#### Chain of Custody

Pag	e	2	of	4
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	Clinete 14	101/ 5 0															-							
1		/PX Energy Pe RDX 15-8	rmian LLC		eu ar sainte			and all contract of the second s	ill To					ab U	se On	2. 1 A. 1					TAT			rogram
		Manager: Gilbe	art More	20				ntion: Jim Raley ess: 5315 Buena				WO#		0		Num			D 20		3D	Standard	CWA	SDWA
•		13000 W Cou						the second s	the second s		ES	509	10				.000					5 day TAT		
		te, Zip_Odessa			and a start of the		1		bad, NM, 88220	,		1		1	Analy	sis an	d Meth	bo						RCRA
		832)541-7719		00				e: 575-885-750		-	1.78%	(q O											-	
				and the second se				l: jim.raley@dvr	n.com			/OR					641						State	
		evon-team@e		com				21204777				DRO,	21	99	0	0.00			WN		¥	NM CO	UT AZ	TX
		d by: Edyte Ko	nan			- Contraction	Incide	ent ID: nAB1512	2455138		ft.)	1/01	y 80	82	601	e 30	12		10 M 10 M					
	Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID					Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300,0			BGDOC		GDOC		Remarks	
	10:30	9/11/2023	S	1				F511		11	4'								x					
	10:40	9//11/2023	S	1 ·				FS12		12	4'								X					
	10:50	9/11/2023	S	1				FS13		13	4'								x					
	11:00	9//11/2024	S	1				FS14		14	4'								x					
	11:10	9/11/2023	S	1				FS15		15	4'								х					
	11:20	9//11/2025	S	1		•		FS16		16	4'								x					
	11:30	9/11/2023	S	1				FS17		17	4'								х					
	11:40	9//11/2026	S	1				FS18		18	4'								x					
	11:50	9/11/2023	S	1				FS19		19	4'								x					
	12:00	9//11/2027	S	1				FS20		20	4'								x					
	Addition	nal Instruction	IS:				1.00		SF Red															
		pler), attest to the e of collection is co						ampering with or inte Sampled	ntionally mislabelling by:	the sample lo	ocation				and the second sec							eived on ice the da ss than 6 °C on sub	a second a second second second	pled or
		ed by: (Signature		Date D.9	112 12023	US\$00	2	Received by: (Signal	. Lough	Date 9-12-	23	Time	180	i)	Rece	eived	on ice	:	Lab		e Only	/		
	Mic		up	Date	12-23	Time 160	) R	Received by: (Signa Adre	nosso	Date 9.12.	23	Time	900	D	<u>T1</u>			T	2			<u></u>		
	Relinquish	Wer r	1650	Date 9.	13.23	DI3	OR	Regived by: Isigna	Man	Date 9.13:2	23	Time	:15	5	AVG	Tem	p°C_	4						
		trix: S - Soil, Sd - So						Standing of State		Container	r Type	e: g - )	glass,	p - p	oly/p	lastic,	ag - ar	nbe	glass,	v -	VOA		The state	
	Note: Sam samples is	ples are discarde applicable only t	d 30 days a to those sar	after results nples recei	are reporte ved by the la	d unless o boratory	other arra with this	angements are mains COC. The liability	de. Hazardous san of the laboratory is	nples will be	retur	ned to	o clien	nt or o	lispose	d of a	t the cli	ent e	xpense	e. Ti	ne rep	ort for the ana	lysis of the	above
														(	E		E	2	n	1	/i	ro	te	ec.

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5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

# WPX Energy - Carlsbad

Project Name: RDX 15 - 8

Work Order: E309101

Job Number: 01058-0007

Received: 9/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/20/23

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: 9/20/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 15 - 8 Workorder: E309101 Date Received: 9/13/2023 8:15:00AM

Gilbert Moreno,



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Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/13/2023 8:15:00AM, under the Project Name: RDX 15 - 8.

The analytical test results summarized in this report with the Project Name: RDX 15 - 8 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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#### Sample Summary

		Sample Sum	mai y		
WPX Energy - Carlsbad		Project Name:	RDX 15 - 8		Reported:
5315 Buena Vista Dr		Project Number: Project Manager:	01058-0007 Gilbert Moreno		09/20/23 15:42
Carlsbad NM, 88220		Project Manager.	Gilbert Moreno		09/20/23 13:42
lient Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S21 4'	E309101-01A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S22 4'	E309101-02A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S23 4'	E309101-03A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S24 4'	E309101-04A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S25 4'	E309101-05A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S26 4'	E309101-06A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S27 4'	E309101-07A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S28 4'	E309101-08A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S29 4'	E309101-09A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
\$30 4'	E309101-10A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S31 4'	E309101-11A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
\$32 4'	E309101-12A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
\$33 4'	E309101-13A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S34 4'	E309101-14A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
S35 4'	E309101-15A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.



	~	ampic D				
WPX Energy - Carlsbad	Project Name	: RDX	K 15 - 8			
5315 Buena Vista Dr	Project Numb	oer: 0105	01058-0007			Reported:
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno			9/20/2023 3:42:00PM
		FS21 4'				
		E309101-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analy	rst: RKS		Batch: 2337059
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
-Xylene	ND	0.0250	1	09/13/23	09/14/23	
,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
otal Xylenes	ND	0.0250	1	09/13/23	09/14/23	
urrogate: Bromofluorobenzene		109 %	70-130	09/13/23	09/14/23	
urrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	09/13/23	09/14/23	
urrogate: Toluene-d8		103 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
urrogate: Bromofluorobenzene		109 %	70-130	09/13/23	09/14/23	
urrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	09/13/23	09/14/23	
urrogate: Toluene-d8		103 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	Batch: 2337103		
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/18/23	
urrogate: n-Nonane		92.3 %	50-200	09/15/23	09/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: RAS		Batch: 2338005
Chloride	795	200	10	09/18/23	09/19/23	

## Sample Data



		ample D	utu				
WPX Energy - Carlsbad	Project Name:	RDZ	K 15 - 8				
5315 Buena Vista Dr	Project Numbe		01058-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moren	С			9/20/2023 3:42:00PM
		FS22 4'					
		E309101-02					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2337059
Benzene	ND	0.0250		1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250		1	09/13/23	09/14/23	
Toluene	ND	0.0250		1	09/13/23	09/14/23	
o-Xylene	ND	0.0250		1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500		1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250		1	09/13/23	09/14/23	
Surrogate: Bromofluorobenzene		104 %	70-130		09/13/23	09/14/23	
urrogate: 1,2-Dichloroethane-d4		94.3 %	70-130		09/13/23	09/14/23	
Surrogate: Toluene-d8		101 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2337059	
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/13/23	09/14/23	
Surrogate: Bromofluorobenzene		104 %	70-130		09/13/23	09/14/23	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130		09/13/23	09/14/23	
urrogate: Toluene-d8		101 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM				Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0		1	09/15/23	09/18/23	
Dil Range Organics (C28-C36)	ND	50.0		1	09/15/23	09/18/23	
Surrogate: n-Nonane		88.0 %	50-200		09/15/23	09/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: RAS		Batch: 2338005
Chloride	2200	400	1	20	09/18/23	09/19/23	



		ample D	aca				
WPX Energy - Carlsbad	Project Name:	RDZ	X 15 - 8				
5315 Buena Vista Dr	Project Numbe	er: 0103	01058-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb		9/20/2023 3:42:00PM			
		FS23 4'					
		E309101-03					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RKS		Batch: 2337059
Benzene	ND	0.0250		1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250		1	09/13/23	09/14/23	
Toluene	ND	0.0250		1	09/13/23	09/14/23	
o-Xylene	ND	0.0250		1	09/13/23	09/14/23	
o,m-Xylene	ND	0.0500		1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250		1	09/13/23	09/14/23	
Surrogate: Bromofluorobenzene		105 %	70-130		09/13/23	09/14/23	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130		09/13/23	09/14/23	
Surrogate: Toluene-d8		101 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS				Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/13/23	09/14/23	
Surrogate: Bromofluorobenzene		105 %	70-130		09/13/23	09/14/23	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130		09/13/23	09/14/23	
Surrogate: Toluene-d8		101 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM				Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0		1	09/15/23	09/18/23	
Dil Range Organics (C28-C36)	ND	50.0		1	09/15/23	09/18/23	
Surrogate: n-Nonane		83.0 %	50-200		09/15/23	09/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	RAS		Batch: 2338005
Chloride	980	400		20	09/18/23	09/19/23	



	D	ample D	uu				
WPX Energy - Carlsbad	Project Name	: RD2	K 15 - 8				
5315 Buena Vista Dr	Project Numb	oer: 0103	01058-0007				Reported:
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno	)			9/20/2023 3:42:00PM
		FS24 4'					
		E309101-04					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2337059
Benzene	ND	0.0250	1	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	1	09/13/23	09/15/23	
p-Xylene	ND	0.0250	1	1	09/13/23	09/15/23	
o,m-Xylene	ND	0.0500	1	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		107 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130		09/13/23	09/15/23	
Surrogate: Toluene-d8		101 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		107 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130		09/13/23	09/15/23	
Surrogate: Toluene-d8		101 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM			Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0	1	1	09/15/23	09/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	1	09/15/23	09/18/23	
Surrogate: n-Nonane		86.1 %	50-200		09/15/23	09/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2338005
Chloride	816	400	2	0	09/18/23	09/19/23	



		ample D	uu				
WPX Energy - Carlsbad	Project Name:	RDZ	K 15 - 8				
5315 Buena Vista Dr	Project Numbe	er: 0103	01058-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb		9/20/2023 3:42:00PM			
		FS25 4'					
		E309101-05					
		Reporting					
Analyte	Result	Limit	Dih	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2337059
Benzene	ND	0.0250		1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250		1	09/13/23	09/15/23	
Toluene	ND	0.0250		1	09/13/23	09/15/23	
p-Xylene	ND	0.0250		1	09/13/23	09/15/23	
o,m-Xylene	ND	0.0500		1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		108 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		09/13/23	09/15/23	
Surrogate: Toluene-d8		102 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2337059	
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		108 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		09/13/23	09/15/23	
urrogate: Toluene-d8		102 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM				Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0		1	09/15/23	09/18/23	
Dil Range Organics (C28-C36)	ND	50.0		1	09/15/23	09/18/23	
Surrogate: n-Nonane		87.4 %	50-200		09/15/23	09/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2338005
Chloride	1740	400	2	20	09/18/23	09/19/23	



		ample D	utu				
WPX Energy - Carlsbad	Project Name:	RDZ	K 15 - 8				
5315 Buena Vista Dr	Project Numbe		01058-0007				Reported:
Carlsbad NM, 88220	Project Manag	er: Gilb		9/20/2023 3:42:00PM			
		FS26 4'					
	-	E309101-06					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2337059
Benzene	ND	0.0250		1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250		1	09/13/23	09/15/23	
Toluene	ND	0.0250		1	09/13/23	09/15/23	
o-Xylene	ND	0.0250		1	09/13/23	09/15/23	
o,m-Xylene	ND	0.0500		1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		105 %	70-130		09/13/23	09/15/23	
urrogate: 1,2-Dichloroethane-d4		92.2 %	70-130		09/13/23	09/15/23	
urrogate: Toluene-d8		101 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2337059	
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		105 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130		09/13/23	09/15/23	
urrogate: Toluene-d8		101 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM				Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0		1	09/15/23	09/18/23	
Dil Range Organics (C28-C36)	ND	50.0		1	09/15/23	09/18/23	
Surrogate: n-Nonane		84.8 %	50-200		09/15/23	09/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: RAS		Batch: 2338005
Chloride	475	400	2	20	09/18/23	09/20/23	



		ampic D	utu				
WPX Energy - Carlsbad	Project Name:		K 15 - 8				
5315 Buena Vista Dr	Project Numbe		01058-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moren	0			9/20/2023 3:42:00PM
		FS27 4'					
		E309101-07					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RKS		Batch: 2337059
Benzene	ND	0.0250		1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250		1	09/13/23	09/15/23	
Toluene	ND	0.0250		1	09/13/23	09/15/23	
p-Xylene	ND	0.0250		1	09/13/23	09/15/23	
o,m-Xylene	ND	0.0500		1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		108 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		09/13/23	09/15/23	
Surrogate: Toluene-d8		100 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		108 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		09/13/23	09/15/23	
Surrogate: Toluene-d8		100 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM			Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0		1	09/15/23	09/19/23	
Dil Range Organics (C28-C36)	ND	50.0		1	09/15/23	09/19/23	
Surrogate: n-Nonane		84.7 %	50-200		09/15/23	09/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	RAS		Batch: 2338005
Chloride	984	400	1	20	09/18/23	09/20/23	



		ample D	ata				
WPX Energy - Carlsbad	Project Name:	RDZ	X 15 - 8				
5315 Buena Vista Dr	Project Numbe		01058-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb			9/20/2023 3:42:00PM		
		FS28 4'					
		E309101-08					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2337059
Benzene	ND	0.0250		1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250		1	09/13/23	09/15/23	
Toluene	ND	0.0250		1	09/13/23	09/15/23	
p-Xylene	ND	0.0250		1	09/13/23	09/15/23	
o,m-Xylene	ND	0.0500		1	09/13/23	09/15/23	
Fotal Xylenes	ND	0.0250		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		108 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130		09/13/23	09/15/23	
Surrogate: Toluene-d8		102 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2337059	
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		108 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130		09/13/23	09/15/23	
Surrogate: Toluene-d8		102 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM				Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0		1	09/15/23	09/19/23	
Dil Range Organics (C28-C36)	ND	50.0		1	09/15/23	09/19/23	
Surrogate: n-Nonane		89.7 %	50-200		09/15/23	09/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: RAS		Batch: 2338005
Chloride	913	400	1	20	09/18/23	09/20/23	



	5	ample D	ata				
WPX Energy - Carlsbad	Project Name		K 15 - 8				
5315 Buena Vista Dr	Project Numb		01058-0007				Reported:
Carlsbad NM, 88220	Project Mana	ger: Gilb		9/20/2023 3:42:00PM			
		FS29 4'					
		E309101-09					
		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RKS		Batch: 2337059
Benzene	ND	0.0250		1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250		1	09/13/23	09/15/23	
Toluene	ND	0.0250		1	09/13/23	09/15/23	
o-Xylene	ND	0.0250		1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500		1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		108 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130		09/13/23	09/15/23	
Surrogate: Toluene-d8		102 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		108 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130		09/13/23	09/15/23	
Surrogate: Toluene-d8		102 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM			Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0		1	09/15/23	09/19/23	
Dil Range Organics (C28-C36)	ND	50.0		1	09/15/23	09/19/23	
Surrogate: n-Nonane		91.1 %	50-200		09/15/23	09/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	RAS		Batch: 2338005
Chloride	552	20.0		1	09/18/23	09/20/23	



		ample D	utu				
WPX Energy - Carlsbad	Project Name:	RDZ	K 15 - 8				
5315 Buena Vista Dr	Project Numb		58-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moren	0			9/20/2023 3:42:00PM
		FS30 4'					
		E309101-10					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RKS		Batch: 2337059
Benzene	ND	0.0250		1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250		1	09/13/23	09/15/23	
Toluene	ND	0.0250		1	09/13/23	09/15/23	
p-Xylene	ND	0.0250		1	09/13/23	09/15/23	
o,m-Xylene	ND	0.0500		1	09/13/23	09/15/23	
Fotal Xylenes	ND	0.0250		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		107 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130		09/13/23	09/15/23	
Surrogate: Toluene-d8		101 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		107 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130		09/13/23	09/15/23	
Surrogate: Toluene-d8		101 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0		1	09/15/23	09/19/23	
Dil Range Organics (C28-C36)	ND	50.0		1	09/15/23	09/19/23	
Surrogate: n-Nonane		83.2 %	50-200		09/15/23	09/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	RAS		Batch: 2338005
Chloride	576	20.0		1	09/18/23	09/20/23	



	5	ample D	ara				
WPX Energy - Carlsbad	Project Name:	RDZ	K 15 - 8				
5315 Buena Vista Dr	Project Numb		58-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno				9/20/2023 3:42:00PM
		FS31 4'					
		E309101-11					
		Reporting					
Analyte	Result	Limit	Dilut	tion P	repared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS			Batch: 2337059
Benzene	ND	0.0250	1	0	9/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	0	9/13/23	09/15/23	
Toluene	ND	0.0250	1	0	9/13/23	09/15/23	
p-Xylene	ND	0.0250	1	0	9/13/23	09/15/23	
o,m-Xylene	ND	0.0500	1	0	9/13/23	09/15/23	
Fotal Xylenes	ND	0.0250	1	0	9/13/23	09/15/23	
Surrogate: Bromofluorobenzene		110 %	70-130	0	9/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	0	9/13/23	09/15/23	
Surrogate: Toluene-d8		103 %	70-130	0	9/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: RKS			Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0	1	0	9/13/23	09/15/23	
Surrogate: Bromofluorobenzene		110 %	70-130	0	9/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	0	9/13/23	09/15/23	
urrogate: Toluene-d8		103 %	70-130	0	9/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	ŀ	Analyst: KM			Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0	1	0	9/15/23	09/19/23	
Dil Range Organics (C28-C36)	ND	50.0	1	0	9/15/23	09/19/23	
Surrogate: n-Nonane		86.9 %	50-200	0	9/15/23	09/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: RAS			Batch: 2338005
Chloride	2050	400	20	) 0	9/18/23	09/20/23	



	St	imple D	ata				
WPX Energy - Carlsbad	Project Name:		K 15 - 8				
5315 Buena Vista Dr	Project Numbe						<b>Reported:</b> 9/20/2023 3:42:00PM
Carlsbad NM, 88220	Project Manag	er: Gilo	ert Moren	0			9/20/2023 5:42:00PM
		FS32 4'					
	-	E309101-12					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RKS		Batch: 2337059
Benzene	ND	0.0250		1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250		1	09/13/23	09/15/23	
Toluene	ND	0.0250		1	09/13/23	09/15/23	
p-Xylene	ND	0.0250		1	09/13/23	09/15/23	
o,m-Xylene	ND	0.0500		1	09/13/23	09/15/23	
Fotal Xylenes	ND	0.0250		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		106 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130		09/13/23	09/15/23	
Surrogate: Toluene-d8		100 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		106 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130		09/13/23	09/15/23	
lurrogate: Toluene-d8		100 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0		1	09/15/23	09/19/23	
Dil Range Organics (C28-C36)	ND	50.0		1	09/15/23	09/19/23	
Surrogate: n-Nonane		96.5 %	50-200		09/15/23	09/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2338005
Chloride	774	20.0		1	09/18/23	09/20/23	



		ample D					
WPX Energy - Carlsbad	Project Name:	RDZ	K 15 - 8				
5315 Buena Vista Dr	Project Numbe		58-0007				Reported:
Carlsbad NM, 88220	Project Manag	er: Gilb	ert Morenc	)			9/20/2023 3:42:00PM
		FS33 4'					
		E309101-13					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RKS		Batch: 2337059
Benzene	ND	0.0250		1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250		1	09/13/23	09/15/23	
Toluene	ND	0.0250		1	09/13/23	09/15/23	
-Xylene	ND	0.0250		1	09/13/23	09/15/23	
,m-Xylene	ND	0.0500		1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		106 %	70-130		09/13/23	09/15/23	
urrogate: 1,2-Dichloroethane-d4		99.2 %	70-130		09/13/23	09/15/23	
Surrogate: Toluene-d8		99.8 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		106 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130		09/13/23	09/15/23	
urrogate: Toluene-d8		99.8 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0		1	09/15/23	09/19/23	
Dil Range Organics (C28-C36)	ND	50.0		1	09/15/23	09/19/23	
Surrogate: n-Nonane		90.6 %	50-200		09/15/23	09/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	RAS		Batch: 2338005
Chloride	1630	400	2	20	09/18/23	09/20/23	



		ample D	uu				
WPX Energy - Carlsbad	Project Name:	: RD2	K 15 - 8				
5315 Buena Vista Dr	Project Numb		58-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno	)			9/20/2023 3:42:00PM
		FS34 4'					
		E309101-14					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2337059
Benzene	ND	0.0250		1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250		1	09/13/23	09/15/23	
Toluene	ND	0.0250		1	09/13/23	09/15/23	
p-Xylene	ND	0.0250		1	09/13/23	09/15/23	
o,m-Xylene	ND	0.0500		1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		106 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130		09/13/23	09/15/23	
Surrogate: Toluene-d8		101 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		106 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130		09/13/23	09/15/23	
urrogate: Toluene-d8		101 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0		1	09/15/23	09/19/23	
Dil Range Organics (C28-C36)	ND	50.0		1	09/15/23	09/19/23	
Surrogate: n-Nonane		87.6 %	50-200		09/15/23	09/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2338005
Chloride	1180	200	1	0	09/18/23	09/20/23	



		ample D	uu				
WPX Energy - Carlsbad	Project Name	: RD2	K 15 - 8				
5315 Buena Vista Dr	Project Numb		58-0007				Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moren	0			9/20/2023 3:42:00PM
		FS35 4'					
		E309101-15					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RKS		Batch: 2337059
Benzene	ND	0.0250		1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250		1	09/13/23	09/15/23	
Toluene	ND	0.0250		1	09/13/23	09/15/23	
p-Xylene	ND	0.0250		1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500		1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		106 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130		09/13/23	09/15/23	
Surrogate: Toluene-d8		101 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		106 %	70-130		09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130		09/13/23	09/15/23	
Surrogate: Toluene-d8		101 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0		1	09/15/23	09/19/23	
Oil Range Organics (C28-C36)	ND	50.0		1	09/15/23	09/19/23	
Surrogate: n-Nonane		84.0 %	50-200		09/15/23	09/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	RAS		Batch: 2338005
Chloride	213	40.0		2	09/18/23	09/20/23	



# QC Summary Data

		<b>t</b> =		iry Data					
WPX Energy - Carlsbad		Project Name:		DX 15 - 8					Reported:
5315 Buena Vista Dr		Project Number:		058-0007					
Carlsbad NM, 88220		Project Manager:	Gi	lbert Moreno				9/	20/2023 3:42:00PM
		Volatile Organic	Compo	unds by EPA	A 82601	В			Analyst: RKS
Analyte		Reporting	Spike	Source		Rec	DDD	RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	<b>N</b> T
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2337059-BLK1)							Prepared: 0	9/13/23 Ana	lyzed: 09/14/23
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	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.1	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			
LCS (2337059-BS1)							Prepared: 0	9/13/23 Ana	lyzed: 09/14/23
. ,	2.42	0.0250	2.50		96.6	70-130	110paroar o		1 <i>j2001 03/11/20</i>
Benzene	2.42	0.0250 0.0250	2.50		96.6 97.9	70-130			
Ethylbenzene	2.43		2.50		97.9 95.7	70-130			
Toluene	2.39	0.0250	2.50		93.7 97.3	70-130			
o-Xylene		0.0250							
p,m-Xylene	4.78	0.0500	5.00		95.5	70-130			
Total Xylenes	7.21	0.0250	7.50		96.1	70-130			
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			
Matrix Spike (2337059-MS1)				Source: E	2309096-	01	Prepared: 0	9/13/23 Ana	lyzed: 09/14/23
Benzene	2.58	0.0250	2.50	ND	103	48-131			
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135			
Toluene	2.48	0.0250	2.50	ND	99.2	48-130			
o-Xylene	2.54	0.0250	2.50	ND	102	43-135			
p,m-Xylene	4.99	0.0500	5.00	ND	99.9	43-135			
Total Xylenes	7.53	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			
Matrix Spike Dup (2337059-MSD1)				Source: <b>E</b>	2309096-	01	Prepared: 0	9/13/23 Ana	lyzed: 09/14/23
Benzene	2.59	0.0250	2.50	ND	104	48-131	0.426	23	
Ethylbenzene	2.59	0.0250	2.50	ND	104	45-135	1.77	27	
Toluene	2.52	0.0250	2.50	ND	101	48-130	1.62	24	
o-Xylene	2.67	0.0250	2.50	ND	107	43-135	5.09	27	
p,m-Xylene	5.27	0.0500	5.00	ND	105	43-135	5.36	27	
Total Xylenes	7.94	0.0250	7.50	ND	106	43-135	5.27	27	
Surrogate: Bromofluorobenzene	0.534		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			
surroguie. Totuene-uo	0.505		0.500		101	/0-150			



## **QC Summary Data**

		QC DI		i y Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	DX 15 - 8 058-0007 lbert Moreno					<b>Reported:</b> 9/20/2023 3:42:00PM
	No	onhalogenated O	rganics	by EPA 801	5D - GF	RO			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 (2337059-BLK1)							Prepared: 0	9/13/23	Analyzed: 09/14/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.1	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			
LCS (2337059-BS2)							Prepared: 0	9/13/23	Analyzed: 09/14/23
Gasoline Range Organics (C6-C10)	45.9	20.0	50.0		91.8	70-130			
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			
Matrix Spike (2337059-MS2)				Source: H	2309096-0	1	Prepared: 0	9/13/23	Analyzed: 09/14/23
Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130			
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.8	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			
Matrix Spike Dup (2337059-MSD2)				Source: H	2309096-0	1	Prepared: 0	9/13/23	Analyzed: 09/14/23
Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130	0.731	20	
Surrogate: Bromofluorobenzene	0.547		0.500		109	70-130			
			0.500		051	<b>TO 100</b>			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			



## QC Summary Data

		$\mathbf{v} \in \mathcal{S}$		ary Date	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	0	DX 15 - 8 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					9/20/2023 3:42:00PM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2337103-BLK1)							Prepared: 0	9/15/23 A	Analyzed: 09/18/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.7		50.0		89.3	50-200			
LCS (2337103-BS1)							Prepared: 0	9/15/23 A	Analyzed: 09/18/23
Diesel Range Organics (C10-C28)	237	25.0	250		94.9	38-132			
Surrogate: n-Nonane	43.5		50.0		87.0	50-200			
Matrix Spike (2337103-MS1)				Source: l	E309101-	11	Prepared: 0	9/15/23 A	Analyzed: 09/18/23
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.6	38-132			
Surrogate: n-Nonane	39.3		50.0		78.5	50-200			
Matrix Spike Dup (2337103-MSD1)				Source: l	E <b>309101</b> -	11	Prepared: 0	9/15/23 A	Analyzed: 09/18/23
Diesel Range Organics (C10-C28)	240	25.0	250	ND	96.0	38-132	1.52	20	
Surrogate: n-Nonane	40.2		50.0		80.4	50-200			



## **QC Summary Data**

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX 15 - 8 1058-0007 Gilbert Moreno					<b>Reported:</b> 9/20/2023 3:42:00PM
		, ,		300.0/9056A	1				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2338005-BLK1)							Prepared: 0	9/18/23	Analyzed: 09/19/23
Chloride	ND	20.0							
LCS (2338005-BS1)							Prepared: 0	9/18/23	Analyzed: 09/19/23
Chloride	268	20.0	250		107	90-110			
Matrix Spike (2338005-MS1)				Source:	E309101-(	01	Prepared: 0	9/18/23	Analyzed: 09/19/23
Chloride	1270	200	250	795	190	80-120			M5
Matrix Spike Dup (2338005-MSD1)				Source:	E309101-(	01	Prepared: 0	9/18/23	Analyzed: 09/19/23
Chloride	1300	200	250	795	203	80-120	2.52	20	M5

QC Summary Report Comment:

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



_	Demitions and Notes										
ſ	WPX Energy - Carlsbad	Project Name:	RDX 15 - 8								
l	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:							
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/20/23 15:42							

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

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



lient · V	VPX Energy Per	mian II (	^			Bill To				la	b Use	Onl	V	5		TA	т	FPA P	rogram
	RDX 15-8	inian EE			Att	ention: Jim Raley		Lab	NO#				Number	1D	2D	3D	Standard	CWA	SDWA
	Manager: Gilbe	ert Morei	no			dress: 5315 Buena Vista Dr.		E309101					58.0007				5 day TAT		
	: 13000 W Cou					, State, Zip: Carlsbad, NM, 8822	0						sis and Metho						RCRA
City, Sta	te, Zip_Odessa	,TX, 7970	65			one: 575-885-7502			λq			Í		T			6.288		
hone: (	832)541-7719				Em	ail: jim.raley@dvn.com		1	ORO									State	
Email: D	evon-team@e	techenv.	com			: 21204777		1	RO/C	-			0.0	WN			NM CO	UT AZ	TX
Collecte	d by: Edyte Koi	nan			Inci	dent ID: nAB1512455138		£	0/D	802	826	6010	e 300			¥			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	5			Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC		GDOC		Remarks	
12:10	9/11/2023	S	1			FS21	1	4'						x					Page rogram SDWA RCRA TX
12:20	9//11/2023	S	1			FS22	2	4'						x					
12:30	9/11/2023	S	1			FS23	3	4'						x					
12:40	9//11/2024	S	1			FS24	4	4'						X					
12:50	9/11/2023	S	1			FS25	5	4'						X					
13:00	9//11/2025	S	1			FS26	6	4'						X					
13:10	9/11/2023	S	1			FS27	7	4'						X					
13:20	9//11/2026	S	1			F528	8	4'						X					
13:30	9/11/2023	S	1		a surger of the second	FS29	9	4'						X					
13:40	9//11/2027	S	1			FS30	10	4'						X					
I, (field sa <del>n</del> date or tim	e of collection is con	validity and a sidered frac	id and may l	pe grounds for lega	action.	tampering with or intentionally mislabelling Sampled by:		ocation			re			n avg te	mp abov	e 0 but l	ceived on ice the day ess than 6 °C on sub		pled or
	ed by: (Signature)	_	Date D <b>9</b> Date	1212023 08	5:00	Received by: (Signature)	Date 9-12-0 Date	23	Time	800	) F	Rece	ived on ice:		ab Us	e Onl	y		
Mic	ed by: (Signature)	uzall	A G- Date	12-23 1	600	Received by: (Signature)	9.12	.23	1	900	<u>5</u> 1	1		<u>T2</u>			<u>T3</u>		
An	when i	Nr 85	0 9	.13.230	130	Begeived by (Signature) Authen Man	9.13.	23		:15	122		Temp °C	4		60 A.	Are State		
sample Ma	trix: <b>S</b> - Soil, <b>Sd</b> - Sol	id, Sg - Slud	ge, <b>A</b> - Aque	ous, <b>O</b> - Other		-	Containe	r Type	e: g - (	glass,	<b>p</b> - po	ly/pl	astic, <b>ag</b> - am	ber g	ass, v	- VOA			

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A		/PX Energy Pe	rmian LLO	C.			Bill To	11			L	ab U	se Or					T.	AT		EP/	Pro	ogram
		RDX 15-8					Attention: Jim Raley		La	b WO	#	We al	Job	Num	ber	10	2D	3D	St	andarc	CW.	A	SDWA
		Aanager: Gilbe					Address: 5315 Buena Vista Dr.		E	30	7910	01	01	osi	8.000.	7			5	day TAT		T	
		13000 W Cou					City, State, Zip: Carlsbad, NM, 8	8220					Analy	sis a	nd Metho	bd							RCRA
	ity, Stat	e, Zip_Odessa	a,TX, 797	65			Phone: 575-885-7502			þ								1		1			-
F	hone: (8	832)541-7719	-				Email: jim.raley@dvn.com			ORO											Stat	e	
E	mail: De	evon-team@e	techenv.	com			WO: 21204777	(rene)		RO/(	5			0.0		MN				NM C	OUT	AZ	TX
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	Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Numbe	Jenth(ft )	TPH GRO/DRO/ORO by	8015 BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC			Rema	rks	
	13:50	9/11/2023	S	1			FS31	11	4	2						Х							
	14:00	9//11/2023	S	1			FS32	12	4	'						Х							
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	14:20	9//11/2024	S	1			FS34	14	4	'						Х							
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			8		of this sample. I am be grounds for legal		that tampering with or intentionally mislab Sampled by:	elling the sample	locati	on,					iiring therma ked in ice at a								ed or
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5	ample Mat	rix: <b>S</b> - Soil, <b>Sd</b> - So	lid, Sg - Slud	ge, <b>A</b> - Aque	ous, O - Other			Contain	er Ty	pe:g	- glass	, <b>p</b> - p	oly/p	lastic	c, ag - am	ber a	glass, v	- VO	A				
							ner arrangements are made. Hazardou ith this COC. The liability of the laborat									nt exp	oense.	The r	eport	for the a	nalysis of t	he ab	ove

## **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

one: (539) 573-4018 Date Logged In: 09/12/23 14:42 Due Date: 09/19/23 17:00 (4 d hain of Custody (COC) Does the sample ID match the COC? Yes Does the number of samples per sampling site location match the COC Yes Were samples dropped off by client or carrier? Yes Were samples received within holding time? Yes Were all samples received within holding time? Yes Were all samples received within holding time? Yes Were samples collecter standard TAT; or Expedited TAT? Yes India the COC indicate standard TAT; or Expedited TAT? Yes Mote: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion. India the COC indicate standard TAT, or Expedited TAT? Yes Was a sample cooler received? Yes Was a sample cooler received? Yes Was a sample cooler received? Yes Was a sample coiler received? Yes If yes, was cooler received in tact, i.e., not broken? Yes Note: Thermal preservation is not required, if samples are received wit 15 minutes of sampling If no visible ice, record the temperature. Actual sample temperature: 4°C Imple Container If no visible ice, record the temperature. Actual sample temperature: 4°C Imple Container If no visible ice, record the temperature. Actual sample temperature: 4°C NA A re aqueous VOC samples present? No A re aqueous VOC samples present? No A re non-VOC samples collected in the correct containers? Yes Is the head space cless than 6-8 mm (paa sized or less)? NA A re non-VOC samples collected in the correct containers? Yes Is the appropriate volume/weight or number of sample containers collected? Yes ed Label Never field sample labels filled out with the minimum information: Sample ID? Yes Date/Time Collected? Yes Collectors name? Yes Date/Time Collected? Yes Collectors name? Yes Date/Time Collected? Yes MA A is lab filteration required and/or requested for dissolved metals? No A re sample(s) correctly preserved? No A re sample(s) correctly preserved? No A re sample(s) correctly preserved?	Work Order ID: E309101
mail:       devon-team@ensolum.com       Due Date:       09/19/23 17:00 (4 d         hain of Custody (COC).       Yes         Does the sample ID match the COC?       Yes         Does the number of samples per sampling site location match the COC       Yes         Were samples dropped off by client or carrier?       Yes         Was the COC complete, i.e., signatures, dates/times, requested analyses?       Yes         Were all samples received within holding time?       Yes         Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this disuession.       Yes         umple Turn Around Time (TAT)       Yes       Yes         Did the COC indicate standard TAT, or Expedited TAT?       Yes         Mas a sample cooler received?       Yes         If yes, was cooler received in good condition?       Yes         Was a the sample(s) received intact, i.e., not broken?       Yes         Note: Thermal preservation is not required, if samples are received wit 15 minutes of sampling       No         . If yes, were custody/security seals intact?       NA         . Are aqueous VOC samples present?       No         . Are souce Souce souce of a present?       No         . Are toor-VOC samples resent?       NA         . Are non-VOC samples collected in VOA Vials?       NA	Logged In By: Caitlin Mars
Does the sample ID match the COC?       Yes         Does the number of samples per sampling site location match the COC       Yes         Were samples dropped off by client or carrier?       Yes         Was the COC complete, i.e., signatures, dates/times, requested analyses?       Yes         Were all samples received within holding time?       Yes         Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.       Yes <b>Imple Cooler</b> Wes a sample cooler received?       Yes         Was a sample cooler received in good condition?       Yes         Was a sample cooler received in good condition?       Yes         Was a sample cooler received in good condition?       Yes         Was a sample cooler received in good condition?       Yes         Was a sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C       Yes         Note: Thermal preservation is not required, if samples are received wil 15 minutes of sampling       NA         Are top constainer       No       No         Are quocus VOC samples present?       No         Are aqueous VOC samples present?       NA         Are aqueous VOC samples collected in VOA vials?       NA         Are non-VOC samples collected in the correct containers?       Yes         Are non-VOC samples collected?	
Does the number of samples per sampling site location match the COC       Yes         Were samples dropped off by client or carrier?       Yes         Was the COC complete, i.e., signatures, dates/times, requested analyses?       Yes         Was the COC complete, i.e., signatures, dates/times, requested analyses?       Yes         Were all samples received within holding time?       Yes         Note: Analysis, such as pH which should be conducted in the field, i.e. 15 minute hold time, are not included in this discussion.       Yes <b>umple Coler</b> Yes         Was a sample cooler received?       Yes         If yes, was cooler received in good condition?       Yes         Was the sample(s) received intact, i.e., not broken?       Yes         Owere custody/security seals present?       No         . If yes, were custody/security seals intact?       NA         Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C       Yes         Note: Thermal preservation is not required, if samples are received wii 15 minutes of sampling       Na         Are aqueous VOC samples present?       No         Are aqueous VOC samples present?       No         Are non-VOC samples collected in VOA Vials?       NA         Are anon-VOC samples collected in the correct containers?       Yes         Is the head space less than 6-8 mm (pea sized or less)? <td></td>	
Were samples dropped off by client or carrier?       Yes         Was the COC complete, i.e., signatures, dates/times, requested analyses?       Yes         Was the COC complete, i.e., signatures, dates/times, requested analyses?       Yes         Wore all samples received within holding time?       Yes         Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disuession.       Yes         Imple Turn Around Time (TAT)       Yes         Did the COC indicate standard TAT, or Expedited TAT?       Yes         If yes, was cooler received?       Yes         Was a sample cooler received in good condition?       Yes         Was the sample(s) received intact, i.e., not broken?       Yes         O. Were custody/security seals present?       No         If yes, were custody/security seals intact?       NA         2. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C       Yes         Note: Thermal preservation is not required, if samples are received wii 15 minutes of sampling       Na         3. If no visible ice, record the temperature. Actual sample temperature: 4°C <b>Yes</b> Imple Container       .       Are aqueous VOC samples present?       No         4. Are aqueous VOC samples present?       No       .       Are aqueous VOC samples collected in VOA Vials?       NA	
Was the COC complete, i.e., signatures, dates/times, requested analyses?       Yes         Were all samples received within holding time?       Yes         Note: Analysis, such as pH which should be conducted in the field,       i.e., 15 minute hold time, are not included in this discussion.         Imple Turn Around Time (TAT)       Yes         Did the COC indicate standard TAT, or Expedited TAT?       Yes         Imple Cooler       Yes         Was a sample cooler received?       Yes         If yes, was cooler received in good condition?       Yes         Was the sample(s) received intact, i.e., not broken?       Yes         Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C       Yes         Note: Thermal preservation is not required, if samples are received will 15 minutes of sampling       No         Are aqueous VOC samples present?       No         Are aqueous VOC samples present?       No         Are avalues of VOC samples present?       No         Are non-VOC samples collected in VOA Vials?       NA         Was a trip blank (TB) included for VOC analyses?       NA         Are non-VOC samples collected in the correct containers?       Yes         eld Label       Yes         Ware field sample labels filled out with the minimum information:       Sample ID?         Sample ID?       Yes<	
Were all samples received within holding time?       Yes         Note: Analysis, such as pH which should be conducted in the field,       i.e, 15 minute hold time, are not included in this disucssion.         mple Turn Around Time (TAT)       Yes         Did the COC indicate standard TAT, or Expedited TAT?       Yes         mple Cooler       Yes         Was a sample cooler received?       Yes         If yes, was cooler received induct, i.e., not broken?       Yes         Was the sample(s) received intact, i.e., not broken?       Yes         Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C       Yes         Note: Thermal preservation is not required, if samples are received wit 15 minutes of sampling       Not         Are aqueous VOC samples present?       No         Are aqueous VOC samples present?       No         Are aqueous VOC samples present?       No         Are non-VOC samples collected in VOA Vials?       NA         Was a trip blank (TB) included for VOC analyses?       NA         Was a trip blank (TB) included for VOC analyses?       Yes         Date/Time Collected?       Yes         Date/Time Collected?       Yes         Date/Time Collected?       Yes         Date/Time Collected?       Yes         Date/Town weight or number of assolved metals?	Carrier: <u>Courier</u>
Note: Analysis, such as pH which should be conducted in the field,       i.e, 15 minute hold time, are not included in this disuession.         Imple Turn Around Time (TAT)       Yes         Did the COC indicate standard TAT, or Expedited TAT?       Yes         Imple Cooler       Yes         Was a sample cooler received?       Yes         If yes, was cooler received intact, i.e., not broken?       Yes         Was the sample(s) received intact, i.e., not broken?       No         . If yes, were custody/security seals intact?       No         . If yes, were custody/security seals intact?       Na         2. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°+2°C       Yes         Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling       No         3. If no visible ice, record the temperature. Actual sample temperature: $\frac{4°C}{2°C}$ Yes         . Are aqueous VOC samples present?       No         5. Is the head space less than 6~8 mm (pea sized or less)?       NA         7. Was a trip blank (TB) included for VOC analyses?       NA         8. Are non-VOC samples collected in the correct containers?       Yes         9. Is the appropriate volume/weight or number of sample containers collected?       Yes         9. Is the appropriate volume/weight or number of sample containers collected?       Yes	
Did the COC indicate standard TAT, or Expedited TAT?       Yes         mmple Cooler       Yes         Was a sample cooler received?       Yes         If yes, was cooler received in good condition?       Yes         Was the sample(s) received intact, i.e., not broken?       Yes         Was the sample sor received intact, i.e., not broken?       No         . Were custody/security seals present?       No         . If yes, were custody/security seals intact?       NA         2. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C       Yes         Note: Thermal preservation is not required, if samples are received w/i 15       minutes of sampling         8. If no visible ice, record the temperature. Actual sample temperature: 4°C       Herman actual sample container         b. Are aqueous VOC samples present?       No         5. Are vOC samples collected in VOA Vials?       NA         7. Was a trip blank (TB) included for VOC analyses?       NA         8. Are non-VOC samples collected?       Yes         9. Is the appropriate volume/weight or number of sample containers collected?       Yes         9. Are field sample labels filled out with the minimum information:       Sample ID?         9. Sumple ID?       Yes         9. Date/Time Collected?       Yes         0. Date/Time Collected?       Yes <td>Comments/Resolution</td>	Comments/Resolution
maple Cooler       Yes         Was a sample cooler received?       Yes         If yes, was cooler received in good condition?       Yes         Was the sample(s) received intact, i.e., not broken?       Yes         Was the sample(s) received intact, i.e., not broken?       Yes         Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C       Yes         Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling       Yes         b. Hr o visible ice, record the temperature. Actual sample temperature: 4°C       Yes <b>umple Container</b> No         c. Are aqueous VOC samples present?       No         c. Are aqueous VOC samples present?       No         c. Sta the head space less than 6-8 mm (pea sized or less)?       NA         d. Are non-VOC samples collected in the correct containers?       Yes         eld Label       Yes         0. Were field sample labels filled out with the minimum information:       Sample ID?         Sample ID?       Yes         Date/Time Collected?       Yes         Collectors name?       Yes         Date/Time Collected?       Yes         Date/Time Collected?       Yes         Does the COC or field labels indicate the samples were preserved?       No         A. Are s	
Was a sample cooler received?       Yes         If yes, was cooler received in good condition?       Yes         Was the sample(s) received intact, i.e., not broken?       Yes         Was the sample(s) received intact, i.e., not broken?       No         Was the sample(s) received intact, i.e., not broken?       No         If yes, were custody/security seals intact?       NA         Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C       Yes         Note: Thermal preservation is not required, if samples are received w/i 15       minutes of sampling         B. If no visible ice, record the temperature. Actual sample temperature: 4°C       Was <b>are</b> aqueous VOC samples present?       No         S. Are vOC samples collected in VOA Vials?       NA         Was a trip blank (TB) included for VOC analyses?       NA         Was a trip blank (TB) included for VOC analyses?       NA         Was a trip blank (TB) included for VOC analyses?       Yes         D. Is the appropriate volume/weight or number of sample containers collected?       Yes         D. Were field sample labels filled out with the minimum information:       Sample ID?         Sample ID?       Yes         Date/Time Collected?       Yes         Collectors name?       Yes         Mathe COC or field labels indicate the samples were preserve	Project RDX 15-8 has been separated into
If yes, was cooler received in good condition?       Yes         Was the sample(s) received intact, i.e., not broken?       Yes         Was the sample(s) received intact, i.e., not broken?       No         If yes, were custody/security seals present?       NA         Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C       Yes         Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling       Yes         B. If no visible ice, record the temperature. Actual sample temperature: 4°C       Yes <b>ample Container</b> No         A. Are aqueous VOC samples present?       No         S. Is the head space less than 6-8 mm (pea sized or less)?       NA         Z. Was a trip blank (TB) included for VOC analyses?       NA         Z. Are non-VOC samples collected in the correct containers?       Yes         D. Is the appropriate volume/weight or number of sample containers collected?       Yes         Date/Time Collected?       Yes         Date/Time Collected?       Yes         Collectors name?       Yes         Date/Time Collected?       Yes         Date/Time Collected?       Yes         Date/Time Collected?       Yes         Mathe apple(s) correctly preserved?       No         Does the COC or field labels indicate the samples we	2 reports due to sample volume.
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b. Does the sample have more than one phase, i.e., multiphase? No	
ibcontract Laboratory	
B. Are samples required to get sent to a subcontract laboratory? No	
	ntract Lab: NA

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



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Project Ir	formation					Chain o	f Custody												Page	Received by OCD: 9/29/2023 1:08:59 PM of 4
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Released to Imaging: 10/17/2023 11:47:15 AM

#### Chain of Custody



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5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

## WPX Energy - Carlsbad

Project Name: RDX 15 - 8

Work Order: E309102

Job Number: 01058-0007

Received: 9/13/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 9/20/23

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: 9/20/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 15 - 8 Workorder: E309102 Date Received: 9/13/2023 8:15:00AM

Gilbert Moreno,



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Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/13/2023 8:15:00AM, under the Project Name: RDX 15 - 8.

The analytical test results summarized in this report with the Project Name: RDX 15 - 8 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.

**Raina Schwanz** 

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Cell: 505-320-4759

ljarboe@envirotech-inc.com

**Southern New Mexico Area Lynn Jarboe** Technical Representative/Client Services Office: 505-421-LABS(5227)

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

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

Envirotech Web Address: www.envirotech-inc.com

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## Sample Summary

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		Sample Sum	mary		
WPX Energy - Carlsbad		Project Name:	RDX 15 - 8		Der erte de
5315 Buena Vista Dr		Project Number:	01058-0007		Reported:
Carlsbad NM, 88220		Project Manager:	Gilbert Moreno		09/20/23 10:02
lient Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
W01 0-4'	E309102-01A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
W02 0-4'	E309102-02A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
W03 0-4'	E309102-03A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
W04 0-4'	E309102-04A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
W05 0-4'	E309102-05A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
W06 0-4'	E309102-06A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
W07 0-4'	E309102-07A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
W08 0-4'	E309102-08A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
W09 0-4'	E309102-09A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
W10 0-4'	E309102-10A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
V11 0-4'	E309102-11A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.



		ala			
Project Num	ber: 010:	58-0007			<b>Reported:</b> 9/20/2023 10:02:44AM
	SW01 0-4'				
	E309102-01				
	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	st: IY		Batch: 2337067
ND	0.0250	1	09/13/23	09/15/23	
ND	0.0250	1	09/13/23	09/15/23	
ND	0.0250	1	09/13/23	09/15/23	
ND	0.0250	1	09/13/23	09/15/23	
ND	0.0500	1	09/13/23	09/15/23	
ND	0.0250	1	09/13/23	09/15/23	
	95.8 %	70-130	09/13/23	09/15/23	
mg/kg	mg/kg	Analys	st: IY		Batch: 2337067
ND	20.0	1	09/13/23	09/15/23	
	92.9 %	70-130	09/13/23	09/15/23	
mg/kg	mg/kg	Analys	st: JL		Batch: 2337077
ND	25.0	1	09/14/23	09/14/23	
ND	50.0	1	09/14/23	09/14/23	
	96.1 %	50-200	09/14/23	09/14/23	
mg/kg	mg/kg	Analys	st: RAS		Batch: 2338006
ND	400	20	09/18/23	09/19/23	
	Project Num Project Mana Result mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Project Number:         0105           Project Manager:         Gilb           SW01 0-4'         E309102-01           E309102-01         Reporting           Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         20.0           92.9 %         92.9 %           mg/kg         mg/kg           ND         25.0           ND         50.0           ND         50.0           96.1 %         mg/kg	Project Number:         01058-0007           Project Manager:         Gilbert Moreno           SW01 0-4'           E309102-01           Reporting           Reporting         Analys           MD         0.0250         1           ND         20.0         1           MD         20.0         1           MD         20.0         1           MD         25.0         1           ND         25.0         1           MD         50.0         1           MD         50.0         1           MD         50.0         1	Project Number:       01058-0007         Project Manager:       Gilbert Moreno         SW01 0-4'       E309102-01         E309102-01       Prepared         Reporting       Analyst:         Result       Limit       Dilution       Prepared         mg/kg       mg/kg       Analyst:       V         ND       0.0250       1       09/13/23         MD       20.0       1       09/13/23         MD       20.0       1       09/13/23         MD       20.0       1       09/13/23         MD       20.0       1       09/13/23         MD       25.0       1       09/13/23         MD       25.0       1	Project Number:       01058-0007         Project Manager:       Gilbert Moreno         SW01 0-4'       SW01 0-4'         E309102-01       E309102-01         Result       Limit       Dilution       Prepared       Analyzed         Mp/kg       mg/kg       Analyst: IY       V         ND       0.0250       1       09/13/23       09/15/23         ND       20.0       1       09/13/23       09/15/23         MD       25.0       1       09/13/23       09/15/23         M

## Sample Data



	0	ample D	ala			
WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name Project Numb		X 15 - 8 58-0007			Reported:
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno			9/20/2023 10:02:44AM
		SW02 0-4'				
		E309102-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: IY		Batch: 2337067
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
oluene	ND	0.0250	1	09/13/23	09/15/23	
-Xylene	ND	0.0250	1	09/13/23	09/15/23	
,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
urrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: IY		Batch: 2337067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		91.3 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: JL		Batch: 2337077
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
urrogate: n-Nonane		93.9 %	50-200	09/14/23	09/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: RAS		Batch: 2338006
Chloride	ND	400	20	09/18/23	09/19/23	



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WPX Energy - Carlsbad	Project Name:	RDZ	X 15 - 8			
5315 Buena Vista Dr	Project Numbe	er: 0105	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno		9/20/2023 10:02:44AM	
		SW03 0-4'				
		E309102-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2337067
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
o,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Fotal Xylenes	ND	0.0250	1	09/13/23	09/15/23	
Surrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2337067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2337077
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
Surrogate: n-Nonane		89.5 %	50-200	09/14/23	09/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2338006
Chloride	97.2	20.0	1	09/18/23	09/19/23	



	b	ample D	ala			
WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name Project Numb		X 15 - 8 58-0007	Reported:		
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno	9/20/2023 10:02:44AM		
		SW04 0-4'				
		E309102-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY	Batch: 2337067	
Benzene	ND	0.0250	1	09/13/23	09/15/23	
thylbenzene	ND	0.0250	1	09/13/23	09/15/23	
oluene	ND	0.0250	1	09/13/23	09/15/23	
-Xylene	ND	0.0250	1	09/13/23	09/15/23	
,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
urrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2337067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		91.6 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2337077
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
'urrogate: n-Nonane		91.3 %	50-200	09/14/23	09/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: RAS		Batch: 2338006
Chloride	158	20.0	1	09/18/23	09/19/23	



	25	ample D	ลเล			
WPX Energy - Carlsbad	Project Name:	RD	X 15 - 8			
5315 Buena Vista Dr	Project Numbe	er: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno		9/20/2023 10:02:44AM	
		SW05 0-4'				
		E309102-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Batch: 2337067		
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
o,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Fotal Xylenes	ND	0.0250	1	09/13/23	09/15/23	
Surrogate: 4-Bromochlorobenzene-PID		96.1 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2337077
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
Surrogate: n-Nonane		90.2 %	50-200	09/14/23	09/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2338006
Chloride	152	20.0	1	09/18/23	09/19/23	



	3	ample D	ala			
WPX Energy - Carlsbad	Project Name	: RD2	X 15 - 8			
5315 Buena Vista Dr	Project Numb	oer: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Mana	ger: Gilb	ert Moreno			9/20/2023 10:02:44AM
		SW06 0-4'				
		E309102-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys		Batch: 2337067	
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
oluene	ND	0.0250	1	09/13/23	09/15/23	
-Xylene	ND	0.0250	1	09/13/23	09/15/23	
o,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Fotal Xylenes	ND	0.0250	1	09/13/23	09/15/23	
urrogate: 4-Bromochlorobenzene-PID		96.1 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: IY		Batch: 2337067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		91.6 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2337077
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
Surrogate: n-Nonane		68.7 %	50-200	09/14/23	09/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2338006
Chloride	443	200	10	09/18/23	09/19/23	

D.	impic D	ata			
Project Name:	RDZ	K 15 - 8			
Project Numbe	er: 0103	58-0007			Reported:
Project Manag	er: Gilb	ert Moreno	9/20/2023 10:02:44AM		
	SW07 0-4'				
	E309102-07				
	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analyst	: IY		Batch: 2337067
ND	0.0250	1	09/13/23	09/15/23	
ND	0.0250	1	09/13/23	09/15/23	
ND	0.0250	1	09/13/23	09/15/23	
ND	0.0250	1	09/13/23	09/15/23	
ND	0.0500	1	09/13/23	09/15/23	
ND	0.0250	1	09/13/23	09/15/23	
	95.3 %	70-130	09/13/23	09/15/23	
mg/kg	mg/kg	Analyst: IY			Batch: 2337067
ND	20.0	1	09/13/23	09/15/23	
	91.9 %	70-130	09/13/23	09/15/23	
mg/kg	mg/kg	Analyst	: JL		Batch: 2337077
ND	25.0	1	09/14/23	09/14/23	
ND	50.0	1	09/14/23	09/14/23	
	104 %	50-200	09/14/23	09/14/23	
mg/kg	mg/kg	Analyst	Analyst: RAS		Batch: 2338006
ND	400	20	00/18/22	00/10/22	
	Project Name: Project Numbe Project Manag Result mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Project Name:         RD2           Project Number:         0102           Project Manager:         Gilb           Project Manager:         Gilb           SW07 0-4'         E309102-07           E309102-07         Imir           Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         20.0           gr/kg         mg/kg           Mg/kg         Mg/kg           ND         25.0           ND         50.0           ND         50.0           ND         50.0           ND         50.0           ND	Project Number:       01058-0007         Project Manager:       Gilbert Moreno         SW07 0-4'         E309102-07         Reporting         Result       Limit       Dilution         mg/kg       mg/kg       Analyst         ND       0.0250       1         ND       20.0       1         MD       20.0       1         MD       25.0       1         ND       25.0       1         ND       25.0       1         ND       50.0       1         ND       50.0       1         ND       50.0       1         ND       <	Project Name:       RDX 15 - 8         Project Number:       01058-0007         Project Manager:       Gilbert Moreno         SW07 0-4'       SW07 0-4'         SW07 D-4'       SW07         E309102-07       Summer Second	Project Name:       RDX 15 - 8         Project Number:       01058-0007         Project Manager:       Gilbert Moreno         SW07 0-4'       E309102-07         E309102-07       Analyzed         Result       Limit       Dilution       Prepared       Analyzed         mg/kg       mg/kg       Analyst: IY       V       V       V         ND       0.0250       1       09/13/23       09/15/23         ND       20.0       1       09/13/23       09/15/23         ND       20.0       1       09/13/23       09/15/23         MD       20.0       1       09/13/23       09/15/23         ND



58	imple D	ala			
Project Name:	RDZ	K 15 - 8			
Project Numbe	er: 0105	58-0007			Reported:
Project Manage	er: Gilb	ert Moreno		9/20/2023 10:02:44AM	
;	SW08 0-4'				
]	E309102-08				
	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analyst: IY			Batch: 2337067
ND	0.0250	1	09/13/23	09/15/23	
ND	0.0250	1	09/13/23	09/15/23	
ND	0.0250	1	09/13/23	09/15/23	
ND	0.0250	1	09/13/23	09/15/23	
ND	0.0500	1	09/13/23	09/15/23	
ND	0.0250	1	09/13/23	09/15/23	
	95.3 %	70-130	09/13/23	09/15/23	
mg/kg	mg/kg	Analyst: IY			Batch: 2337067
ND	20.0	1	09/13/23	09/15/23	
	90.5 %	70-130	09/13/23	09/15/23	
mg/kg	mg/kg	Analys	t: JL		Batch: 2337077
ND	25.0	1	09/14/23	09/14/23	
ND	50.0	1	09/14/23	09/14/23	
	90.0 %	50-200	09/14/23	09/14/23	
mg/kg	mg/kg	Analys	t: RAS		Batch: 2338006
160	20.0	1	09/18/23	09/19/23	
	Project Name: Project Numbe Project Manag Result mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Project Name:         RDX           Project Number:         0102           Project Manager:         Gilb           Project Manager:         Gilb           SW08 0-4'         E309102-08           E309102-08         Imir           mg/kg         mg/kg           Mg/kg         Mg/kg           ND         0.0250           ND         20.0           90.5 %         mg/kg           Mg/kg         Mg/kg           ND         25.0           ND         50.0           ND         50.0           ND	Project Name:         RDX 15 - 8           Project Number:         01058-0007           Project Manager:         Gilbert Moreno           SW08 0-4'         E309102-08           E309102-08         Imit           Result         Limit         Dilution           mg/kg         mg/kg         Analyst           ND         0.0250         1           ND         20.0         1           MD         20.0         1           MD         20.0         1           MD         20.0         1           MD         25.0         1           MD         20.0         1	Project Name:         RDX 15 - 8           Project Number:         01058-0007           Project Manager:         Gilbert Moreno           SW08 0-4'         SW08 0-4'           SW08 0-4'         Project Manager:           Baseline         Dilution         Prepared           Result         Limit         Dilution         Prepared           MD         0.0250         1         09/13/23           ND         20.0         1         09/13/23           ND         20.0         1         09/13/23           MD         20.0         1         09/13/23           MD         20.0         1         09/13/23           MD	Project Number:       01058-0007         Project Manager:       Gilbert Moreno         SW08 0-4'       SW08 0-4'         E309102-08       Summaria         E309102-08       Summaria         Result       Limit       Dilution       Prepared       Analyzed         Mp       Mg/kg       Mg/kg       Analyzed       Mg/kg       Op/13/23       Op/15/23         ND       0.0250       1       09/13/23       Op/15/23       Op/15/23         ND       0.0250       1       09/13/23       Op/15/23         ND       20.0       1       09/13/23       Op/15/23         MD       20.0       1       09/13/23       Op/15/23         MD       20.0       1       09/13/23       09/15/23         MD       20.0       1       09/13/23       09/15/23         MD       25.0       1       09/13/23       09/14/23<



	<b>Reported:</b> 9/20/2023 10:02:44AM		
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	9/20/2023 10:02:44AM		
ared Analyzed	Notes		
Analyst: IY			
3/23 09/15/23			
3/23 09/15/23			
3/23 09/15/23			
3/23 09/15/23			
3/23 09/15/23			
3/23 09/15/23			
3/23 09/15/23			
	Batch: 2337067		
3/23 09/15/23			
3/23 09/15/23			
	Batch: 2337077		
4/23 09/15/23			
4/23 09/15/23			
4/23 09/15/23			
	Batch: 2338006		
8/23 09/19/23			
	3/23         09/15/23           3/23         09/15/23           3/23         09/15/23           3/23         09/15/23           3/23         09/15/23           3/23         09/15/23           3/23         09/15/23           3/23         09/15/23           3/23         09/15/23           3/23         09/15/23           3/23         09/15/23           3/23         09/15/23           3/23         09/15/23           4/23         09/15/23           4/23         09/15/23           4/23         09/15/23		



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Project Name:	RDZ	K 15 - 8			
Project Numbe	r: 0103	58-0007			Reported:
Project Manage	er: Gilb	ert Moreno		9/20/2023 10:02:44AM	
5	SW10 0-4'				
1	E309102-10				
	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	Batch: 2337067		
ND	0.0250	1	09/13/23	09/15/23	
ND	0.0250	1	09/13/23	09/15/23	
ND	0.0250	1	09/13/23	09/15/23	
ND	0.0250	1	09/13/23	09/15/23	
ND	0.0500	1	09/13/23	09/15/23	
ND	0.0250	1	09/13/23	09/15/23	
	94.6 %	70-130	09/13/23	09/15/23	
mg/kg	mg/kg	/kg Analyst: IY			Batch: 2337067
ND	20.0	1	09/13/23	09/15/23	
	91.3 %	70-130	09/13/23	09/15/23	
mg/kg	mg/kg	Analy	st: JL		Batch: 2337077
ND	25.0	1	09/14/23	09/15/23	
ND	50.0	1	09/14/23	09/15/23	
	92.4 %	50-200	09/14/23	09/15/23	
mg/kg	mg/kg	Analy	st: RAS		Batch: 2338006
149	20.0	1	09/18/23	09/19/23	
	Project Numbe Project Manage Result Mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Project Number:       0105         Project Manager:       Gilb         SW100-4'       E309102-10         E309102-10       Reporting         Result       Limit         mg/kg       mg/kg         Mg/kg       mg/kg         ND       0.0250         ND       20.0         gl/3.5%       10         Mg/kg       mg/kg         MD       25.0         ND       50.0         ND       50.0         ND       50.0         Mg/kg       Mg/kg	Project Number:       01058-0007         Project Manager:       Gilbert Moreno         SW10 0-4'         E309102-10         E309102-10         Result I imit Dilution         Mg/kg       mg/kg       Analy         Mg/kg       mg/kg       Analy         MD       0.0250       1         ND       20.0       1         Mg/kg       mg/kg       Analy         ND       20.0       1         MD       25.0       1         ND       50.0       1         ND       50.0       1         ND       50.0       1         ND       50.200       1         ND <t< td=""><td>Project Number:       01058-0007         Project Manager:       Gilbert Moreno         SW10 0-4'       SW10 0-4'         E309102-10       Fease         E309102-10       Project Manager         Result       Limit       Dilution       Prepared         Result       Limit       Dilution       Prepared         MD       0.0250       1       09/13/23         ND       20.02       1       09/13/23         MD       20.02       1       09/13/23         MD       20.01       09/13/23       00/13/23         MD       20.02       1       09/13/23         MD       20.02       1       09/13/23         MD       20.01&lt;</td><td>Project Number:       01058-0007         Project Manager:       Gilbert Moreno         SW10 0-4'         E309102-10         E309102-10         E309102-10         Result       Limit       Dilution       Prepared       Analyzed         M2       M2/4       Analyzed       M2/4       M2/4         M2       M2/5       1       09/13/23       09/15/23         ND       0.0250       1       09/13/23       09/15/23         MD       20.0       1       09/13/23       09/15/23         MD       20.0       1       09/13/23       09/15/23         MD       20.0       1       09/13/23       09/15/23         MD       25.0       1       09/13/23       09/15/23         MD</td></t<>	Project Number:       01058-0007         Project Manager:       Gilbert Moreno         SW10 0-4'       SW10 0-4'         E309102-10       Fease         E309102-10       Project Manager         Result       Limit       Dilution       Prepared         Result       Limit       Dilution       Prepared         MD       0.0250       1       09/13/23         ND       20.02       1       09/13/23         MD       20.02       1       09/13/23         MD       20.01       09/13/23       00/13/23         MD       20.02       1       09/13/23         MD       20.02       1       09/13/23         MD       20.01<	Project Number:       01058-0007         Project Manager:       Gilbert Moreno         SW10 0-4'         E309102-10         E309102-10         E309102-10         Result       Limit       Dilution       Prepared       Analyzed         M2       M2/4       Analyzed       M2/4       M2/4         M2       M2/5       1       09/13/23       09/15/23         ND       0.0250       1       09/13/23       09/15/23         MD       20.0       1       09/13/23       09/15/23         MD       20.0       1       09/13/23       09/15/23         MD       20.0       1       09/13/23       09/15/23         MD       25.0       1       09/13/23       09/15/23         MD



	53	ampie D	ala			
WPX Energy - Carlsbad	Project Name:	RDZ	K 15 - 8			
5315 Buena Vista Dr	Project Number	er: 0105	58-0007		Reported:	
Carlsbad NM, 88220	Project Manag	ger: Gilb	ert Moreno			9/20/2023 10:02:44AM
		SW11 0-4'				
		E309102-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2337067
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
oluene	ND	0.0250	1	09/13/23	09/15/23	
-Xylene	ND	0.0250	1	09/13/23	09/15/23	
,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
urrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: RKS		Batch: 2337067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		93.3 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: JL		Batch: 2337077
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/15/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/15/23	
urrogate: n-Nonane		95.0 %	50-200	09/14/23	09/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: RAS		Batch: 2338006
Chloride	443	200	10	09/18/23	09/19/23	



## QC Summary Data

		<u> </u>			~				
WPX Energy - Carlsbad		Project Name:	R	DX 15 - 8					Reported:
5315 Buena Vista Dr		Project Number:	01	1058-0007					•
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					9/20/2023 10:02:44AM
		Volatile O	rganics l	by EPA 802	1B				Analyst: IY
Analyte	D li	Reporting Limit	Spike Level	Source Result		Rec Limits	RPD	RPD Limit	
	Result mg/kg	mg/kg	mg/kg	mg/kg	Rec %	%	%	%	Notes
Blank (2337067-BLK1)							Prepared: 0	9/13/23 A	analyzed: 09/15/23
Benzene	ND	0.0250					1		<b>j</b>
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	7.66	5.0250	8.00		95.7	70-130			
LCS (2337067-BS1)							Prepared: 0	9/13/23 A	nalyzed: 09/15/23
Benzene	4.59	0.0250	5.00		91.9	70-130			
Ethylbenzene	4.55	0.0250	5.00		91.1	70-130			
Toluene	4.61	0.0250	5.00		92.2	70-130			
o-Xylene	4.59	0.0250	5.00		91.8	70-130			
p,m-Xylene	9.29	0.0500	10.0		92.9	70-130			
Total Xylenes	13.9	0.0250	15.0		92.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.5	70-130			
Matrix Spike (2337067-MS1)				Source:	E309102-	03	Prepared: 09/13/23		analyzed: 09/15/23
Benzene	4.82	0.0250	5.00	ND	96.5	54-133			
Ethylbenzene	4.79	0.0250	5.00	ND	95.8	61-133			
Toluene	4.83	0.0250	5.00	ND	96.7	61-130			
o-Xylene	4.78	0.0250	5.00	ND	95.7	63-131			
p,m-Xylene	9.73	0.0500	10.0	ND	97.3	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.7	70-130			
Matrix Spike Dup (2337067-MSD1)					E309102-				analyzed: 09/15/23
Benzene	4.57	0.0250	5.00	ND	91.4	54-133	5.41	20	
Ethylbenzene	4.52	0.0250	5.00	ND	90.5	61-133	5.69	20	
Toluene	4.58	0.0250	5.00	ND	91.6	61-130	5.40	20	
p-Xylene	4.57	0.0250	5.00	ND	91.4	63-131	4.58	20	
p,m-Xylene	9.21	0.0500	10.0	ND	92.1	63-131	5.40	20	
Total Xylenes	13.8	0.0250	15.0	ND	91.9	63-131	5.13	20	



## **QC Summary Data**

		QC D	u 111111	ary Data	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX 15 - 8 1058-0007 Gilbert Moreno					<b>Reported:</b> 9/20/2023 10:02:44AM
	No	nhalogenated C	rganics	by EPA 801	5D - Gl	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
	ilig/kg	ilig/kg	ilig/kg	ilig/kg	70	70	70	70	INOICES
Blank (2337067-BLK1)							Prepared: 0	9/13/23 A	analyzed: 09/15/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			
LCS (2337067-BS2)							Prepared: 0	9/13/23 A	analyzed: 09/15/23
Gasoline Range Organics (C6-C10)	44.4	20.0	50.0		88.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.8	70-130			
Matrix Spike (2337067-MS2)				Source: <b>F</b>	2309102-	03	Prepared: 0	9/13/23 A	analyzed: 09/15/23
Gasoline Range Organics (C6-C10)	43.9	20.0	50.0	ND	87.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130			
Matrix Spike Dup (2337067-MSD2)				Source: <b>F</b>	2309102-	03	Prepared: 0	9/13/23 A	analyzed: 09/15/23
Gasoline Range Organics (C6-C10)	43.5	20.0	50.0	ND	87.0	70-130	0.903	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			

## QC Summary Data

		QU DI		ary Data	•				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX 15 - 8 1058-0007 Gilbert Moreno					<b>Reported:</b> 9/20/2023 10:02:44AM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: JL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2337077-BLK1)							Prepared: 0	9/14/23 A	analyzed: 09/14/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	49.1		50.0		98.1	50-200			
LCS (2337077-BS1)							Prepared: 0	9/14/23 A	analyzed: 09/14/23
Diesel Range Organics (C10-C28)	247	25.0	250		98.7	38-132			
Surrogate: n-Nonane	48.7		50.0		97.3	50-200			
Matrix Spike (2337077-MS1)				Source: I	E309102-	01	Prepared: 0	9/14/23 A	analyzed: 09/14/23
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	43.3		50.0		86.5	50-200			
Matrix Spike Dup (2337077-MSD1)				Source: I	2309102-	01	Prepared: 0	9/14/23 A	analyzed: 09/14/23
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.1	38-132	3.52	20	
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			



## **QC Summary Data**

			•	···· <b>J</b> = ····					
WPX Energy - Carlsbad		Project Name:	I	RDX 15 - 8					Reported:
5315 Buena Vista Dr		Project Number:	. (	01058-0007					
Carlsbad NM, 88220		Project Manager		Gilbert Moreno					9/20/2023 10:02:44AM
		Anions	by EPA	300.0/9056A	4				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 (2338006-BLK1)							Prepared: 0	9/18/23 A	nalyzed: 09/19/23
Chloride	ND	20.0							
LCS (2338006-BS1)							Prepared: 0	9/18/23 A	nalyzed: 09/19/23
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2338006-MS1)				Source:	E309102-	01	Prepared: 0	9/18/23 A	nalyzed: 09/19/23
Chloride	641	400	250	ND	257	80-120			M5
Matrix Spike Dup (2338006-MSD1)				Source:	E309102-	01	Prepared: 0	9/18/23 A	nalyzed: 09/19/23
Chloride	601	400	250	ND	241	80-120	6.43	20	M5

QC Summary Report Comment:

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



_	Definitions and rotes									
ſ	WPX Energy - Carlsbad	Project Name:	RDX 15 - 8							
l	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:						
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/20/23 10:02						

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

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Reproject Information

Page	1 of eived
ogram SDWA	by
RCRA	OCD: 9/2
тх	9/29/2023
	1:08:59
	9 PM

	PX Energy Pe	rmian LL	С.		Bill To				Lab Use Only							T/		EPA Program		
	RDX 15-8				Attention: Jim Raley	e.	Lab V	NO#			Job			1D	2D	3D	Star	ndard	CWA	SDWA
-	Aanager: Gilbo		172-2-2		Address: 5315 Buena Vista Dr.		E3	04	110:	2	016	58.	-0007				5 da	y TAT		
	13000 W Cou				City, State, Zip: Carlsbad, NM,	oad, NM, 88220					Analy	sis a	nd Metho	d			9			RCR/
	e, Zip_Odessa		65		Phone: 575-885-7502	1951 - C		yd (												
	332)541-7719				Email: jim.raley@dvn.com	1. C.		ORC											State	
	evon-team@e		com		WO: 21204777			RO/	21	0		0.0		MN		×	Ν	IM CO	UT AZ	TX
ollected	by: Edyte Ko	nan			Incident ID: nAB1512455138	54	E.	d/o	/ 80.	826	601	e 30				4				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC			Remarks	
7:00	9/11/2023	S	1		SW01	1	0-4'							x						
7:10	9//11/2023	S	1		SW02	2	0-4'					-		X						
7:20	9/11/2023	S	1		SW03	3	0-4'							x				1	-	
7:30	9//11/2024	S	1		SW04	4	0-4'							x						
7:40	9/11/2023	S	1	28	SW05	5	0-4'							x						
7:50	9//11/2025	S	1		SW06	10	0-4'							x						
8:00	9/11/2023	S	1		SW07	7	0-4'							x						
8:10	9//11/2026	S	1		SW08	8	0-4'							x						
8:20	9/11/2023	S	1		SW09	9	0-4'							X	5 5					
8:30	9//11/2027	S	1		SW10	10	0-4'							x						
ddition	al Instruction	IS:				18														
				of this sample. I am av be grounds for legal act	vare that tampering with or intentionally mislation. <u>Sampled by:</u>	abelling the sample	ocation,						uiring thermal ked in ice at an							pled or
2	ed by: (Signature			12/2023 08:0		Date 9-12	23	Time	080	0	Rece	eived	d on ice:		ab U		nly			
Mich	ed by: (Signature	und		12-23 16	Received by: (Signature)	Date 9.17		Time /C	100		T1			<u>T2</u>			I	3		
And	ed by: (Signature	1 /	Pate <b>Q</b> .	13.23 d	Received by: (Signature)	n 9.132		Time	15		AVG	Ten	np°c_4	1						
ample Mat	rix: S - Soil, Sd - Sol	lid, Sg - Sludg	ge, <b>A</b> - Aquec	ous, O - Other			r Type	:g-g	glass,	<b>p</b> - p	oly/p	lasti	c, ag - amb	oer g	lass, v	- VO/	A			
ote: Samp					other arrangements are made. Hazardo y with this COC. The liability of the labora									t exp	ense.	The re	eport fo	r the anal	ysis of the	above

lient: W	PX Energy Pe	rmian LLC					Bill To			Notestar	La	b Use	On	lv				TAT		EPA P	rogram
	RDX 15-8					tention: Jim Rale	NA N		Lah	WO#				Vumbe	er	1D 3	2D 3		Standard	CWA	SDWA
	lanager: Gilbe	ert Morer	10			dress: 5315 Bue			F	SOA	102	2	No	58.1	2007				5 day TAT		
	13000 W Cou				COLORADO DE LA COLORADA		rlsbad, NM, 8822	0		~	102		naly	sis and	Metho	d					RCRA
	e, Zip_Odessa					none: 575-885-75	the second se			þ	-		Í			TT					
	332)541-7719				Er	nail: jim.raley@c	lvn.com		1	ORO										State	
mail: De	evon-team@e	techenv.	com			0: 21204777			1	0/0	1			0.		WN			NM CO	UT AZ	TX
ollected	by: Edyte Ko	nan			the second se	cident ID: nAB15	12455138	5	1	J/DF	802	8260	010	300.0			1	≚			
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		BGDOC		GDOC		Remarks	
8:40	9/11/2023	S	1			SW11	-6	11	0-4'							x					Page rogram SDWA RCRA TX
				-											-	-	-	-			
									-			-	-	4							
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/																		_			
/							1														
	al Instruction									-											
	of collection is co					at tampering with or in <u>Sampl</u>	ntentionally mislabelling ed by:	g the sample l	ocation	,									ved on ice the da 1 than 6 °C on sub	51 22	
elinquish	ed by: (Signature	)	Date	112/2023	Time 08200	Received by: (Sig	nature)	Date 9-12	23	Time	007		Rece	eived o	n ice:		b Use	Only			
elinguish MU	ed by: (Signature	int	Date 9-1	12-23	Time 1600	Received by: (Sig	miliso	Date 9.12	.23	Time 10	100		T1			<u>T2</u>			<u>T3</u>		
elinquish	ed by: (Signature	1.550	Date	13.23	Time Ol 30	Received by: (Sig	Man	Date 9.13.2	23	Time 8:	15	-	AVG	Temp	°c 4	7					
ample Mat	rix: S - Soil, Sd - So			ous, O - Other		- www.		Containe	r Type	:g-	glass,	p - pc	oly/pl	lastic, a	ng - am	ber glas	s, v - 1	VOA			

C

## **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

Client:	WPX Energy - Carlsbad Da	te Received:	09/13/23	08:15		Work Order ID:	E309102
Phone:	(539) 573-4018 Da	te Logged In:	09/12/23	14:45		Logged In By:	Caitlin Mars
Email:		e Date:		17:00 (4 day TAT)		<del> , -</del>	
Chain o	f Custody (COC)						
1. Does	the sample ID match the COC?		Yes				
2. Does	the number of samples per sampling site location match t	the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Cou	urier		
4. Was th	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes				
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes			<u>Commen</u>	ts/Resolution
Sample	Turn Around Time (TAT)			Г			
	ne COC indicate standard TAT, or Expedited TAT?		Yes				
Sample	•						
-	sample cooler received?		Yes				
	, was cooler received in good condition?		Yes				
9. Was th	he sample(s) received intact, i.e., not broken?		Yes				
	e custody/security seals present?		No				
	s, were custody/security seals intact?		NA				
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec minutes of sampling		Yes				
13. If no	visible ice, record the temperature. Actual sample tem	perature: 4°	С				
	Container		_				
	aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
18. Are	non-VOC samples collected in the correct containers?		Yes				
19. Is the	e appropriate volume/weight or number of sample containers	collected?	Yes				
Field La	abel						
20. Were	e field sample labels filled out with the minimum informa	ation:					
	Sample ID?		Yes				
	Date/Time Collected? Collectors name?		Yes				
			Yes				
_	<u>Preservation</u> s the COC or field labels indicate the samples were prese	rved?	No				
	sample(s) correctly preserved?		NA				
	b filteration required and/or requested for dissolved meta	ls?	No				
<u>Multiph</u>	ase Sample Matrix						
26. Does	s the sample have more than one phase, i.e., multiphase?		No				
27. If ye	s, does the COC specify which phase(s) is to be analyzed	1?	NA				
Subcont	tract Laboratory						
	samples required to get sent to a subcontract laboratory?		No				
	a subcontract laboratory specified by the client and if so	who?	NA	Subcontract Lab: 1	NA		
	Instruction				_		

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



envirotech Inc.

**Project Information** 

Released to Imaging: 10/17/2023 11:47:15 AM

Page 24 of 25

Client: W	PX Energy Pe	rmian LL	C.			T	Bill T	0		No.		La	b Us	e On	ly		T		TA	T		EPA P	rogram	y C
Project: I	RDX 15-8					Atte	ntion: Jim Raley			Lab	WO#			And the last fairs	Numb	ber	1D	2D	3D		ndard	CWA	SDWA	C
The second s	Aanager: Gilb						ress: 5315 Buena Vis	sta Dr.		Lab	SOP	10:	2			1000					ay TAT			D:
Address:	13000 W Cou	unty Rd 1	00			City	, State, Zip: Carlsbad	, NM, 88220	)					And Transferration	All marks and	d Metho	d				STREET.		RCRA	/9
City, Stat	e, Zip_Odess	a,TX, 797	65			Pho	ne: 575-885-7502			12-00	γd												1948-1847	/92
C PROPERTY OF THE REAL	332)541-7719					Ema	il: jim.raley@dvn.co	m			ORO											State		20
	evon-team@e		com			WO	: 21204777	w Yearbartely - As			RO/(	H	0		0.0		WN		-	Ī	NM CO	UT AZ	TX	23
Collected	by: Edyte Ko	nan				Incid	dent ID: nAB1512455	5138		13	GRO/DRO/ORO by	8021	826	2010	30(				¥	Γ		in the		1:
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID					Lab Number	Depth(ft.)	TPH GR 8015	BTEX by	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		1000	Remarks		OCD: 9/29/2023 1:08:59 PM
7:00	9/11/2023	S	1				SW01		1	0-4'							x			(	Corr	ecte	d	PM
7:10	9//11/2023	S	1				SW02	210	2	0-4'							x				Sam	ples	tates	
7:20	9/11/2023	S	1				SW03	s ister i s	3	0-4'							X				Der	Gil	bert.	
7:30	9//11/2024	5	1				SW04		4	0-4'							X				9/18	23	CM	
7:40	9/11/2023	S	1				SW05		5	0-4'							x							
7:50	9//11/2025	S	1				SW06		0	0-4'							x							
8:00	9/11/2023	S	1				SW07		7	0-4'							x							
8:10	9//11/2026	S	1				SW08		8	0-4'							x							
8:20	9/11/2023	S	1				SW09		9	0-4'		3					x							
8:30	9//11/2027	S	1				SW10		10	0-4'							x							
Addition	al Instruction	15:																						
	pler), attest to the of collection is co						tampering with or intention Sampled by:	ally mislabelling	the sample l	ocation	,			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2							on ice the day n δ <sup>o</sup> C on subs	and the second s	pled or	
Relinquish	ed by: (Signature	e) 	Date 09/	12/2023	Time 08801		Received by: (Signature)	eus	Date 9-12-	23	Time	180	6	Rece	eived	on ice:		)/ N	se On	ly				
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Relinquish	ed by: (Signature	2550	Date 9.	13.23	Time	n	Received by: (Signature)	nan	Date 9.13:2	13	Time 8:	15		AVG	i Tem	p°c 4	1							
	trix: S - Soil, Sd - So					-			Containe				p-p	oly/p	lastic,	ag - am							20000	
Note: Sam	ples are discarde	ed 30 days a	after results	are reporte	d unless d	other a	rrangements are made.	Hazardous sar	nples will be	e retur	ned to	clien	t or d	lispose	ed of a						or the anal	ysis of the	above	
samples is	applicable only	to those sa	mples receiv	ved by the la	boratory	with th	his COC. The liability of th	e laboratory is	s limited to	the am	ount	paid fo	or on	the re	eport.									Page 173
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Project Information	Pro	ject	Inf	orm	a	tior
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Released to Imaging: 10/17/2023 11:47:15 AM

#### Chain of Custody

Client: W	PX Energy Pe	rmian LLC	2.		Left.	Bill To			1	196-	La	ab Us	e On	lv	-	T			TA	т		EPA P	rogram
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	Aanager: Gilbe	ert Morer	10			Address: 5315 Buena Vista Dr.	SQ		F	309	10	2			000		10			5 day			00111
	13000 W Cou					City, State, Zip: Carlsbad, NM, 8822	20			2	10				nd Met								RCRA
	e, Zip_Odessa			and a star where		Phone: 575-885-7502	1		-	2	120					T		T	T				Heitt
	332)541-7719	and the second se				Email: jim.raley@dvn.com				ROF				1						-	<u>Longeron</u> L	State	L
And the second last successful state	evon-team@e	And the second second second second second	com			WO: 21204777				0/0				0			4			N	MICOL	UT AZ	TY
	by: Edyte Ko			and the second second second		Incident ID: nAB1512455138	Reserve			/DR(	021	260	010	300.			NM		ž		IVI CO	OT AL	
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# 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></ocd.enviro@emnrd.nm.gov>
Sent:	Monday, July 10, 2023 10:19 AM
То:	Erick Herrera
Cc:	Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject:	RE: [EXTERNAL] WPX Site Sampling Activity Update (7/12-7/14)

Erick,

Notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion 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 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Erick Herrera <erick@etechenv.com>
Sent: Friday, July 7, 2023 2:01 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 (7/12-7/14)

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 next week at the following site between July 12 through 14, 2023. This email serves as a 48-hr notice.

Proposed Date: July 12, 2023 Proposed Timeframe: 0800 – 1700 hrs. Site Name: RDX 15-8 Incident Number: nAB1512455138 API: 30-015-36758

Thank you,

**Erick Herrera** 

Staff Geologist

E CH vironmental & Safety Solutions, Inc.

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

#### **Erick Herrera**

From:	Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov></ocd.enviro@emnrd.nm.gov>
Sent:	Thursday, July 13, 2023 9:07 AM
То:	Erick Herrera
Cc:	Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject:	RE: [EXTERNAL] WPX Site Sampling Activity Updates (7/17-7/21)

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.

JH

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Erick Herrera <erick@etechenv.com>
Sent: Wednesday, July 12, 2023 3:33 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 (7/17-7/21)

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 17 through July 21, 2023:

Proposed Date: July 17, 2023, July 18, 2023, July 19, 2023, July 20, 2023, July 21, 2023, Proposed Timeframe: 0800 – 1700 hrs. Site Name: RDX 15-8 Incident Number: nAB1512455138 API: 30-015-36758

Proposed Dates: July 17, 2023, July 18, 2023, July 19, 2023, July 20, 2023, July 21, 2023, Proposed Timeframe: 0800 – 1700 hrs. Site Name: North Brushy PW Line

Staff Geologist

E H vironmental & Safety Solutions, Inc.

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

#### **Erick Herrera**

From:	Buchanan, Michael, EMNRD <michael.buchanan@emnrd.nm.gov></michael.buchanan@emnrd.nm.gov>
Sent:	Wednesday, September 6, 2023 3:47 PM
То:	Erick Herrera; Enviro, OCD, EMNRD; blm_nm_cfo_spill@blm.gov; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Cc:	Raley, Jim; Devon-Team
Subject:	RE: [EXTERNAL] WPX Site Sampling Activity Update (9/11 -9/15)

You don't often get email from michael.buchanan@emnrd.nm.gov. Learn why this is important

#### Hello, 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,

Mike Buchanan • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113 505.490.0798 | <u>michael.buchanan@emnrd.nm.gov</u> http://www.emnrd.nm.gov/ocd



From: Erick Herrera <erick@etechenv.com>
Sent: Wednesday, September 6, 2023 11:03 AM
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 (9/11 -9/15)

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

#### Good morning,

WPX anticipates conducting confirmation soil sampling activities at the following sites between September 11<sup>th</sup> through September 15<sup>th</sup>, 2023:

Proposed Date: September 11, 2023, September 12, 2023, September 13, 2023, September 14, 2023, September15, 2023.

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: Brushy Gathering Facility Incident Numbers: nAB1501655607, nAB1504054780, nAB1522341642, nAB1621453181, nAB1633639499, and nAPP2230032326 API: 30-015-24451

Proposed Date: September 11, 2023, September 12, 2023, September 13, 2023, September 14, 2023, September 15, 2023. Proposed Timeframe: 0800 – 1700 hrs. Site Name: RDX 15-8 Incident Number: nAB1512455138 API: 30-015-36758

Thank you,

**Erick Herrera** Staff Geologist

nvironmental & Safety Solutions, Inc.

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

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

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

District III

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

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

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

CONDITIONS

Operator: (	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	270763
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

#### Created By Condition None amaxwell

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Action 270763

Condition Date 10/17/2023