

# SITE CHARACTERIZATION AND REMEDIATION PLAN

RDX 16 #009

Eddy County, New Mexico Incident Numbers nAPP2317840368 nAPP2322658221

**Prepared For:** 

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

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

### **SYNOPSIS**

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Site Characterization and Remediation Plan (SCRP) detailing delineation soil sampling activities at the RDX 16 #009 (Site) associated with two inadvertent releases of crude oil and produced water. Based on the site characterization and laboratory analytical results from recent soil sampling events, WPX proposes this SCRP, which summarizes corrective actions and details remediation objectives to rectify environmental impacts.

### SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit F, Section 16, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.0453377, -103.8900681) and is associated with oil and gas exploration and production operations on State Land (**Figure 1** in **Appendix A**).

### Incident Number nAPP2317840368

On June 26, 2023, it was discovered that a water transfer pump was inadvertently left off causing a release of approximately 50 barrels (bbls) of crude oil and 522 bbls of produced water within an earthen bermed tank battery containment. Fluids escaped the containment and flowed onto the pad surface and adjacent pasture. A vacuum truck was dispatched to the Site and recovered approximately 40 bbls of crude oil and 480 bbls of produced water. Following discovery, Etech mapped the observed release footprint utilizing a handheld Geospatial Positioning System (GPS) receiver, which is presented as Release Area #1 shown in **Figure 2** in **Appendix A**. WPX reported the release to Mike Bratcher and Rosa Romero from the New Mexico Oil Conservation Division (NMOCD) via email and on a Release Notification and Corrective Action Form C-141 (Form C-141) on June 27, 2023, which was subsequently assigned Incident Number nAPP2317840368. It should be noted that the date of the release discovery on the initial C-141 is incorrect, which was communicated to the NMOCD via email and can be referenced in **Appendix B**.

In July 2023, WPX conducted initial restoration of pad surfaces within and around the earthen bermed tank battery containment. Further remediation to include pasture soils required an approved Right-of-Entry (ROE) permit prior to ground disturbance. As a result, on July 20, 2023, SWCA Environmental Consultants (SWCA) was retained to conduct a cultural survey of the Site, which was completed on August 3, 2023. Following the finalized cultural survey of the Site, an ROE permit was submitted on October 5, 2023, and issued on October 31, 2023.

### Incident Number nAPP2322658221

On August 14, 2023, it was discovered that a breaker to the water transfer pump tripped during a power outage causing a release of approximately 149 barrels bbls of produced water within the same earthen bermed tank battery containment as Incident Number nAPP2317840368. All fluids remained within the earthen bermed tank battery containment. A vacuum truck was dispatched to the Site and recovered approximately 110 bbls of produced water. Following discovery, Etech mapped the observed release footprint utilizing a handheld GPS receiver, which is presented as Release Area #2 shown in **Figure 2** in **Appendix A**. WPX reported the release to Mike Bratcher and Rosa Romero from the NMOCD via email and on a Form C-141 on August 14, 2023, which was subsequently assigned Incident Number nAPP2322658221.

Due to the delay of land access caused by ROE permitting processes, an extension to complete remediation activities and prepare a report for both incidents was requested and granted by the NMOCD for December 23, 2023.

Site Characterization and Remediation Plan Incident Numbers nAPP2317840368 & nAPP2322658221 RDX 16 #009

### 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 groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs), based off a nearby soil boring advanced by Atkins Engineering Associates, Inc., located approximately 0.21 miles west of the Site. Soil boring (C-04068-POD1) was advanced on May 11, 2017, via a truck mounted drill rig equipped with a hollow stem auger to a total depth of 125 feet bgs. No fluids were observed throughout the drilling process nor after a 72-hour observation period. Following the observation period, the boring was plugged and abandoned according to the appropriate regulations. The well log for the referenced soil boring is provided in **Appendix C**. The soil boring location and other nearby soil borings and/or regional groundwater well locations are shown in **Figure 1A** in **Appendix A**.

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 1B** and **Figure 1C** in **Appendix A**.

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

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria <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 ACTIVITES**

On October 19 and November 9, 2023, Etech conducted delineation activities to assess the presence or absence of residual soil impacts associated with the two overlapping subject release areas, henceforth

Site Characterization and Remediation Plan Incident Numbers nAPP2317840368 & nAPP2322658221 RDX 16 #009

combined into one area and referred to as the Area of Concern (AOC). Fourteen delineation potholes (PH01 through PH14) were advanced via mechanical equipment within and surrounding the AOC. Delineation activities were driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A minimum 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 D**. The delineation soil sample locations and the AOC are shown in **Figure 2** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix E**.

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.

#### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for soil samples collected surrounding the AOC and assisting with lateral delineation (PH07 through PH10, PH11 PH13, and PH14) were compliant with Site Closure Criteria and/or the reclamation standard.

Laboratory analytical results for samples collected within the AOC (PH01 through PH06, and PH12) indicated BTEX concentrations were below Site Closure Criteria and/or reclamation standard, however, chloride and/or TPH-GRO+TPH-DRO/TPH concentrations exceeded the Site Closure Criteria and/or the reclamation standard up to 4 feet bgs. Elevated chloride concentrations were characterized by concentrations ranging from 4,760 mg/kg to 25,200 mg/kg. Elevated TPH-GRO+TPH-DRO/TPH concentrations were characterized by concentrations ranging from 4,050 mg/kg to 25,500 mg/kg. Laboratory analytical results are summarized in **Table 1** included in **Appendix F**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix G**.

#### PROPOSED REMEDIATION PLAN

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

- Laboratory analytical results for delineation soil samples PH07 through PH10, PH11, PH13, and PH14 indicated all concentrations of the COCs were below the Site Closure Criteria and/or reclamation standard, which sufficiently defines the horizontal periphery of the AOC.
- Laboratory analytical results for the terminus depth of all delineation soil samples indicated all
  concentrations of the COCs were below Site Closure Criteria, which sufficiently defines the
  vertical extent of the AOC.
- Laboratory analytical results indicated BTEX concentrations were below Site Closure Criteria and/or reclamation standards for all delineation soil samples.
- Laboratory analytical results for delineation soil samples collected within the AOC indicated concentrations of chloride and TPH-GRO+TPH-DRO/TPH exceeding the Site Closure Criteria and/or reclamation standard exist up to 4 feet bgs, which are characterized by concentrations ranging from 4,760 mg/kg to 25,200 mg/kg and 4,050 mg/kg to 25,500 mg/kg, respectively. TPH concentrations only appear to exist in the proximity of soil sample locations PH01 through PH03, which dramatically decrease below Site Closure Criteria before 4 feet bgs.

Site Characterization and Remediation Plan Incident Numbers nAPP2317840368 & nAPP2322658221 RDX 16 #009

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

- WPX proposes to advance excavation activities to remove residual impacts greater than Site Closure Criteria according to delineation soil sample analytical laboratory results to the Maximum Extent Practical (MEP) and to leave residual impacts, classified as in compliance Site Closure Criteria but greater than reclamation standards, in place until the Site undergoes major deconstruction or plugging and abandonment activities, whichever occurs first. As such, approximately 365 cubic yards of residually impacted soil are anticipated to be excavated and removed from the Site (Figure 3 in Appendix A). Following the removal of soil, confirmation 5-point composite soil samples will be collected from the excavation and submitted to an accredited laboratory for analysis of chloride, TPH, and BTEX.
  - Due to the large AOC square footage (10,422 square feet), WPX requests a sampling variance of which confirmation soil samples represent a maximum of 400 square feet per soil sample. As such, 30 samples are anticipated to be collected from the excavation floors sidewalls compared to 59 samples utilizing a frequency of 200 square feet.
- While excavating residual impacts as defined by Site Closure Criteria, proposed excavation areas
  may require additional oversight and supplementary safety measures near surface and/or
  subsurface pipelines and production equipment before or during excavation activities. WPX
  and/or a third-party operator may implement additional safety precautions above encroachment
  guidelines at their company's discretion for the health and safety of on-site personnel and for the
  structural integrity of utilities. Such implemented restrictions may inflict, but are not limited to the
  following:
  - Decreasing the proposed excavation depth(s) in order to maintain surface and/or subsurface utility and production equipment stability.
  - Decreasing or altering the proposed excavation extent(s) in order to maintain surface and/or subsurface utility and production equipment stability.
- Impacted soil will be transported to a nearby landfill facility for disposal under approved WPX waste manifests.
- Once remediation is complete and receipt of excavation confirmation soil sample results indicates soil concentrations exceeding Site Closure Criteria has been removed and/or excavated to the MEP, WPX will backfill the excavation(s) with clean, locally sourced soil and restored to "as close to its original state" as possible and determine the next appropriate measure of corrective action:
  - Documenting excavation activities to the MEP and the presence of residual impacts left in place immediately adjacent to and under active production equipment and/or utilities with a subsequent Deferral Report detailing assessment and sampling activities or
  - Preparing a SCRP Addendum detailing the next course of remedial actions to address the presence of potential remaining soil impacts and the Site, based off an estimated lateral and vertical extent of impacted soil from assessment and delineation activities.

### PROPOSED SCHEDULE

Upon the notice of NMOCD approval of this SCRP, WPX will begin the proposed remediation activities outlined above and provide a report detailing completed remediation activities for Incident Numbers nAPP2317840368 and nAPP2322658221.

Site Characterization and Remediation Plan Incident Numbers nAPP2317840368 & nAPP2322658221 RDX 16 #009 If you have any questions or comments, please do not hesitate to contact Anna Byers at (575) 200-6754 or <a href="mailto:anna@etechenv.com">anna@etechenv.com</a> or Gilbert Moreno (832) 541-7719 or <a href="mailto:gilbert@etechenv.com">gilbert@etechenv.com</a>. **Appendix B** provides correspondence email notification receipts associated with the subject release.

Sincerely,

Etech Environmental and Safety Solutions, Inc.

Gilbert Moreno Project Geologist Anna Byers Senior Geologist

(inna Byers

cc: Jim Raley, WPX

New Mexico Oil Conservation Division

State Land Office

#### Appendices:

Appendix A: Figure 1: Site Map

Figure 1A: Site Characterization Map - Groundwater

Figure 1B: Site Characterization Map – Surficial Receptors

Figure 1C: Site Characterization Map – Subsurface Receptors

Figure 2: Delineation Soil Sample Locations

Figure 3: Proposed Excavation Extents

**Appendix B**: NMOCD Notifications

**Appendix C:** Referenced Well Records

Appendix D: Lithologic Sampling Logs

Appendix E: Photographic Log

Appendix F: Tables

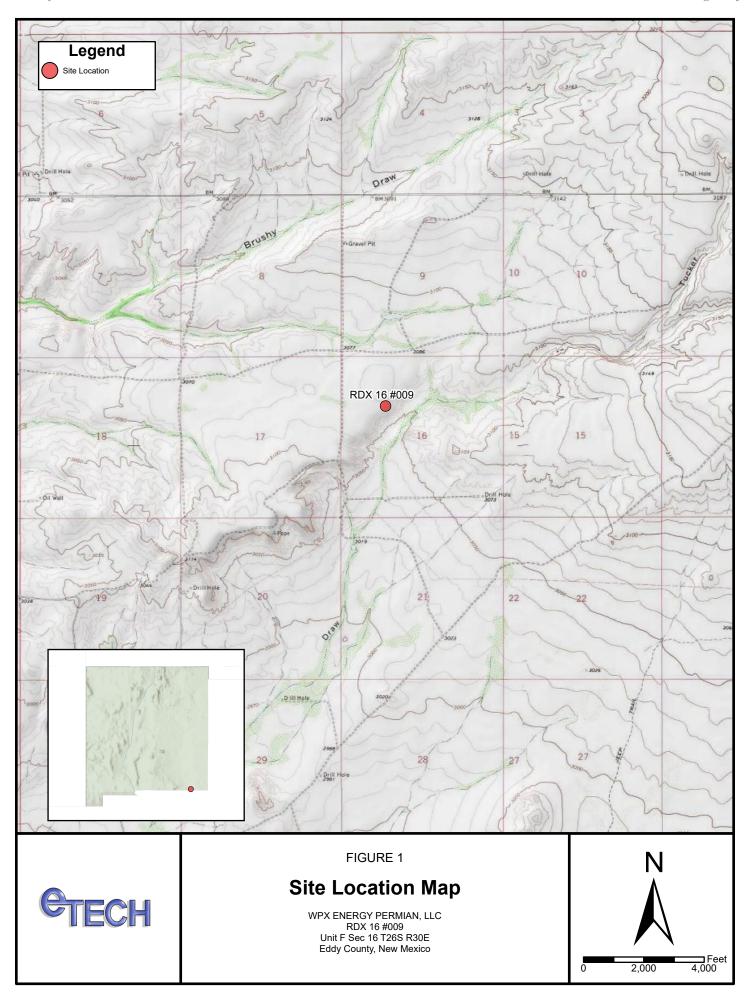
**Appendix G**: Laboratory Analytical Reports & Chain-of-Custody Documentation

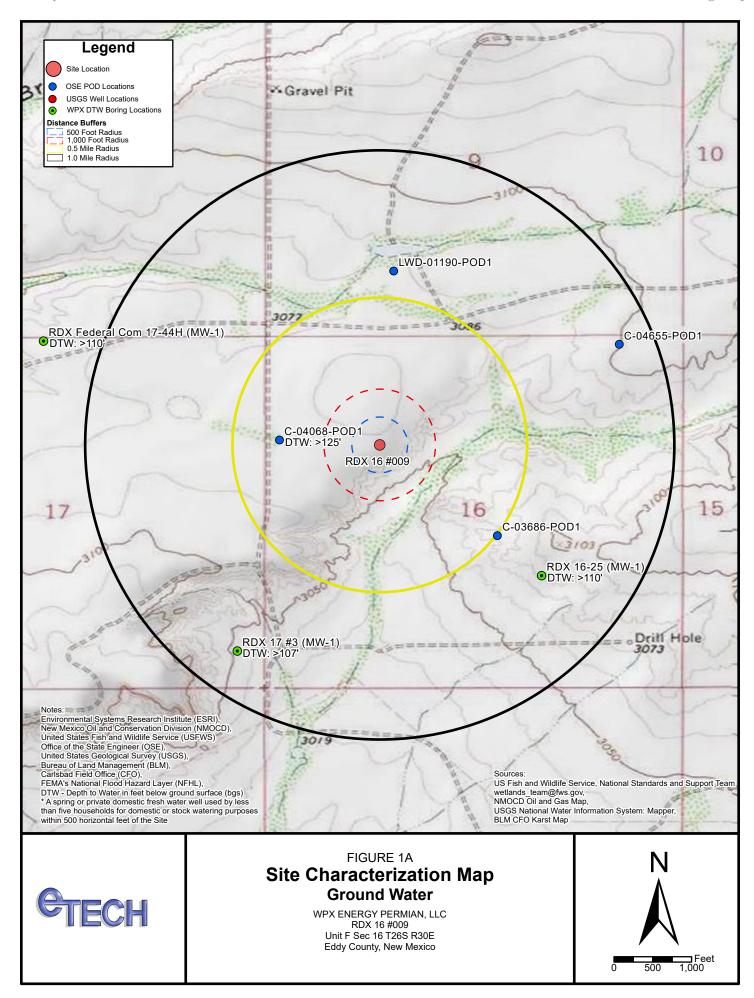
### **APPENDIX A**

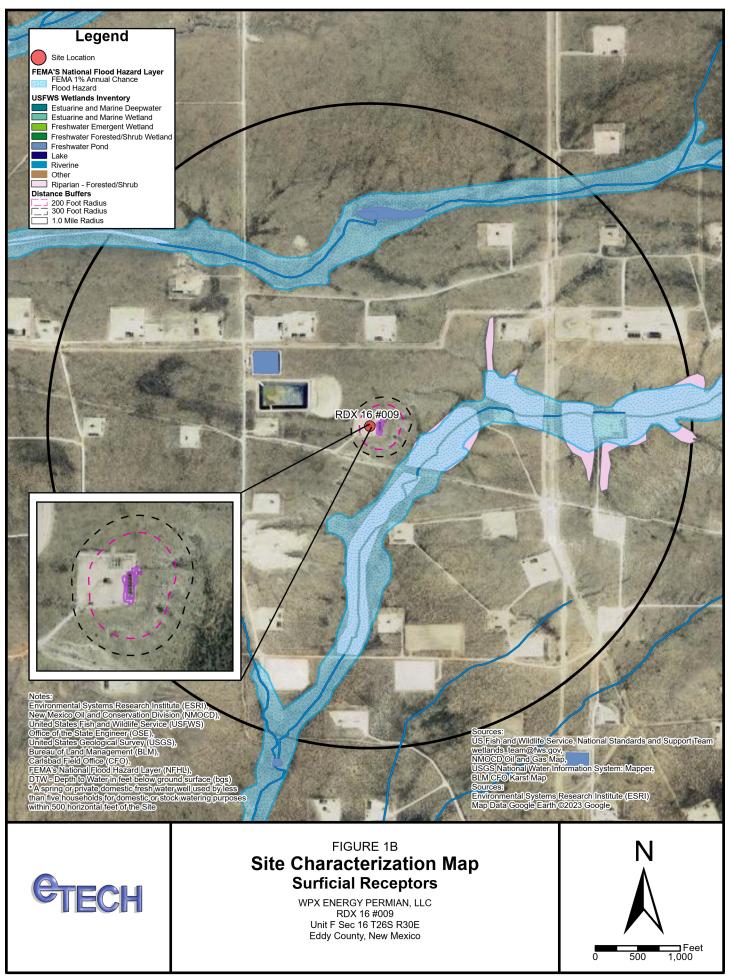
**Figures** 

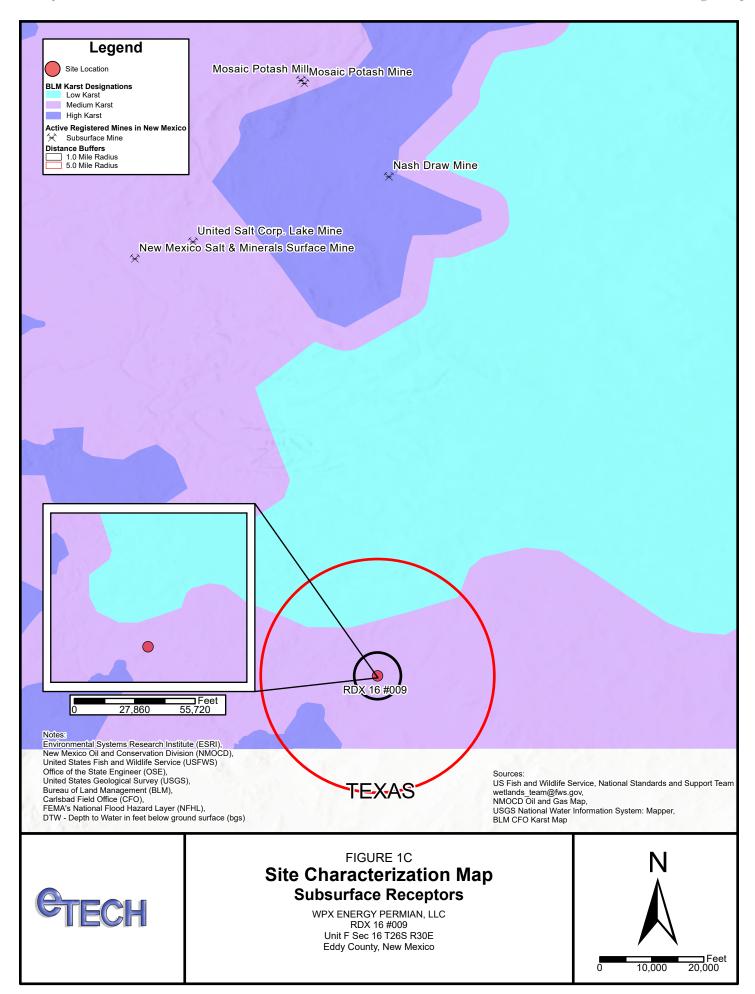
P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213

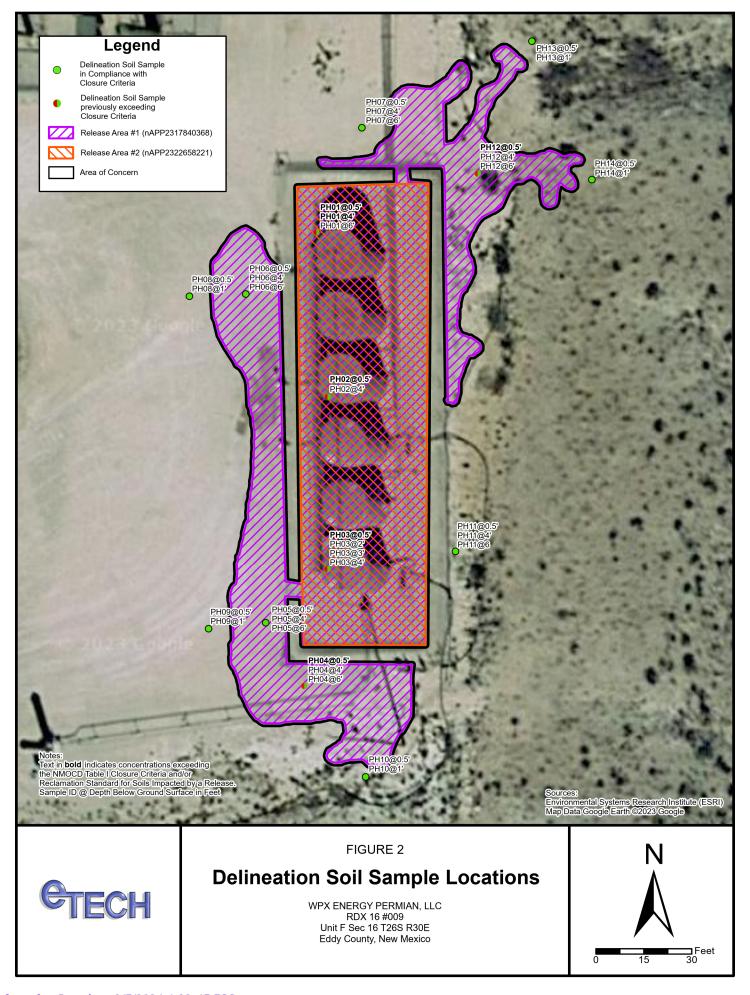


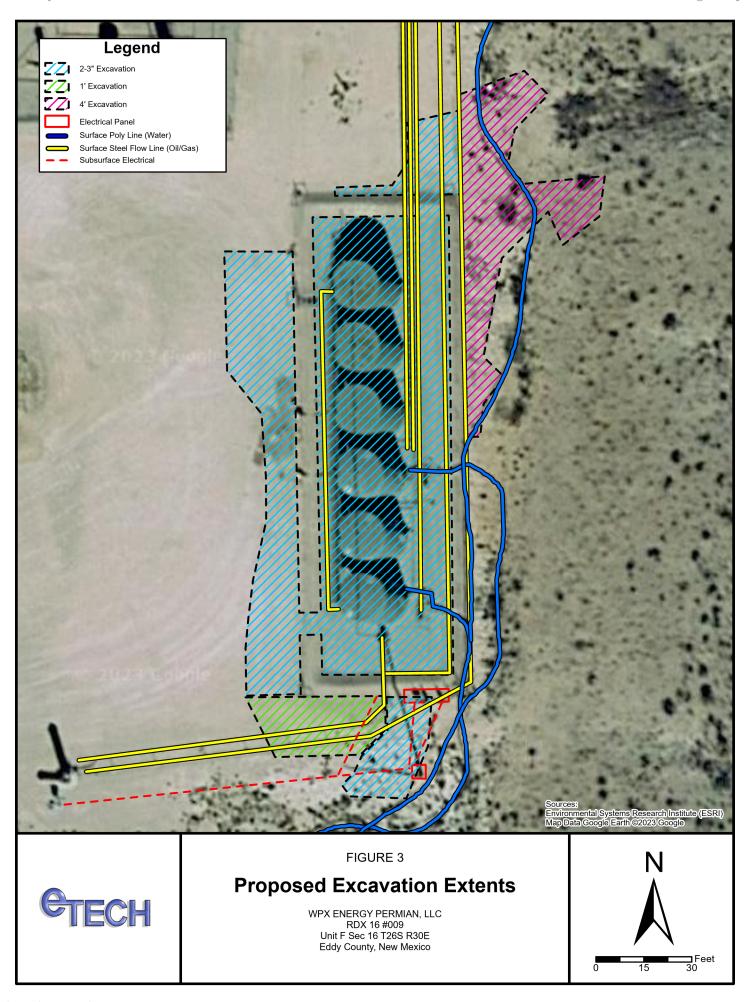












### **APPENDIX B**

### **NMOCD Notifications**

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



### **Erick Herrera**

From: Hamlet, Robert, EMNRD < Robert.Hamlet@emnrd.nm.gov>

Sent: Thursday, September 21, 2023 2:24 PM

To: Raley, Jim

Cc: Devon-Team; Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD

**Subject:** (Extension Approval) - RDX 16-9H - nAPP2317840368 and nAPP2322658221

RE: Incident #NAPP2317840368 and NAPP2322658221

Jim,

Your request for an extension to **December 23rd, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet ● Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Raley, Jim <Jim.Raley@dvn.com>
Sent: Thursday, September 21, 2023 9:46 AM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Devon-Team@etechenv.com>

Subject: [EXTERNAL] RDX 16-9H Extension Request - nAPP2322658221 and nAPP2322658221

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Robert,

WPX Energy Permian, LLC (WPX) is requesting an extension to the current deadline for a report required in 19.15.29.12.B.(1) NMAC at the RDX 16 #009 (Site).

A produced water release was discovered on June 26, 2023, and subsequently assigned Incident Number nAPP2317840368. Note: the date of discovery for this release on the initial C-141 is incorrect and will be updated on the Final C-141. A cultural survey was completed for the proposed work area in pasture soil to conduct delineation activities. Cultural is finalizing a report for State Land Office (SLO) and will be sent for review. An additional inadvertent release of produced water occurred on August 14, 2023 (nAPP2322658221) and overlapped the area impacted by nAPP2322658221, therefore additional investigation and planning are warranted to allow cultural and the State Land Office to provide additional clearance for corrective actions to address both incidents.

To provide enough time for additional planning, remediation activities and subsequent corrective action report, WPX requests an extension of the deadline for the two overlapping releases associated with Incident Number nAPP2317840368 and nAPP2322658221 to **December 23, 2023**.

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



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### **Erick Herrera**

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

Sent: Wednesday, October 11, 2023 5:15 PM

To: Erick Herrera; blm\_nm\_cfo\_spill@blm.gov; Hamlet, Robert, EMNRD; Bratcher, Michael,

EMNRD; Hall, Brittany, EMNRD

**Cc:** Raley, Jim; Devon-Team

Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (10/16-10/20)

Hi Erick,

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

Thank you,

Shelly

Shelly Wells \* Environmental Specialist-Advanced

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

From: Erick Herrera <erick@etechenv.com> Sent: Wednesday, October 11, 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 Update (10/16-10/20)

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 October 16<sup>th</sup> through October 20<sup>th</sup>, 2023:

Proposed Date: October 16, 20023 Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDU 34

Incident Number: nAPP2326833391

API: 30-015-41578

Proposed Date: October 17, 20023 Proposed Timeframe: 0800 – 1700 hrs. Site Name: RDX Federal 21 #031 Incident Number: nAPP2326847671 API: 30-015-41266

Proposed Date: October 17, 20023, October 18, 2023, October 19, 2023, October 20, 2023

Proposed Timeframe: 0800 - 1700 hrs.

Site Name: RDX 16 #009

Incident Numbers: nAPP2322658221 & nAPP2317840368

API: 30-015-39752

Proposed Date: October 16, 2023, October 17, 2023, October 18, 2023, October 19, 2023, October 20, 2023

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDU 11

Incident Numbers: nAPP2200728755, nAB1712951426, nAB1728551205, nAB1728553778, & nHMP1412241998

API: 30-015-24307

Thank you,

### Erick Herrera

Staff Geologist



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

#### **Erick Herrera**

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

Sent:Monday, November 6, 2023 9:18 AMTo:Erick Herrera; eco@slo.state.nm.us

Cc:Raley, Jim; Devon-Team; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRDSubject:RE: [EXTERNAL] (WPX Site Sampling Notification) RDX 16 #009 (nAPP2317840368)

6/26/2023 & (nAPP2322658221) 8/14/2023

Hi Erick,

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

Thank you,

Shelly

Shelly Wells \* Environmental Specialist-Advanced Environmental Bureau EMNRD-Oil Conservation Division 1220 S. St. Francis Drive | Santa Fe, NM 87505 (505)469-7520 | Shelly. Wells@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/

From: Erick Herrera <erick@etechenv.com> Sent: Monday, November 6, 2023 7:56 AM

**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; eco@slo.state.nm.us **Cc:** Raley, Jim <jim.raley@dvn.com>; Devon-Team <Devon-Team@etechenv.com>

Subject: [EXTERNAL] (WPX Site Sampling Notification) RDX 16 #009 (nAPP2317840368) 6/26/2023 & (nAPP2322658221)

8/14/2023

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

Good morning,

WPX anticipates conducting confirmation soil sampling activities at the following site between November 9, 2023 & November 10, 2023:

Site Name: RDX 16 #009

Proposed Timeframe: 0800 – 1700 hrs.

Incident Numbers: nAPP2317840368 & nAPP2322658221

API: 30-015-39752

Thank you,

Erick Herrera Staff Geologist



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

### **APPENDIX C**

### Referenced Well Records

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







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	40	50	10	white tannish sand/sandstone	Y	✓ N		
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					Y	N	1 (g) 4 1 (g) 4 2 (g) 5	100 m 100 m 100 m
					Y	N	1 mg m 47 1 mg	garana paranan garanan garan
					. Y	N	_/3 	
	METHOD U	SED TO ES	STIMATE YIELD	OF WATER-BEARING STRATA:	TOTAL ESTI		0.0	,
	PUMF	, <u> </u>	IR LIFT	BAILER OTHER - SPECIFY:	WELL YIEL	∪ (gpn).	0.0	<u> </u>
ISION	WELL TEST			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, IN ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV				
TEST; RIG SUPERVIS	MISCELLAI	NEOUS IN	Во	g adapted from Souder Miller & Associates oversight. Boring to dring advanced with combination of air rotary and hollow stem augring not converted to well. Boring abandoned see plugging record	er tooling. No	ence/abser water end	nce of wat countered.	er.
res	PRINT NAM	IE(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	STRUCTION (	THER TH	IAN LICEN	NSEE:
vá	Guadalupe "	Lupe" Ley	ba, Shane Eldrid	ge				
SIGNATURE	CORRECT R	ECORD O	F THE ABOVE DI	ES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELI ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R DAYS AFTER COMPLETION OF WELL DRILLING:				
6. SIGN		3anh	. D. he	Jackie D. Atkins	5/1′	5/17/2017		
		SIGNAT	URE OF DRILLEI	R / PRINT SIGNEE NAME		DATE		
FOR	OSE INTERN	NAL USE		WR-20 WE	LL RECORD &	LOG (Ver	sion 10/29	/2015)
	E NUMBER	$\mathbb{C}$	-406	POD NUMBER TRN NUME	BER (OC	107	27	
Loc	CATION	$\mathcal{I}(c)$	S.30E	10.103.1	EXPI		PAGE 2	OF 2

Tom Blaine, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Mbr:

606777

File Nbr:

C 04068

Well File Nbr: C 04068 POD1

Jun. 12, 2017

JUSTIN BARMORE
RKI EXPLORATION AND PRODUCTION LLC
3500 ONE WILLIAMS CENTER MD 35
TULSA, OK 74172

#### Greetings:

The above numbered permit was issued in your name on 05/08/2017.

The Well Record was received in this office on 05/17/2017, stating that it had been completed on 05/12/2017, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 05/15/2018.

If you have any questions, please feel free to contact us.

Sincerely,

Deborah Dunaway (575)622-6521

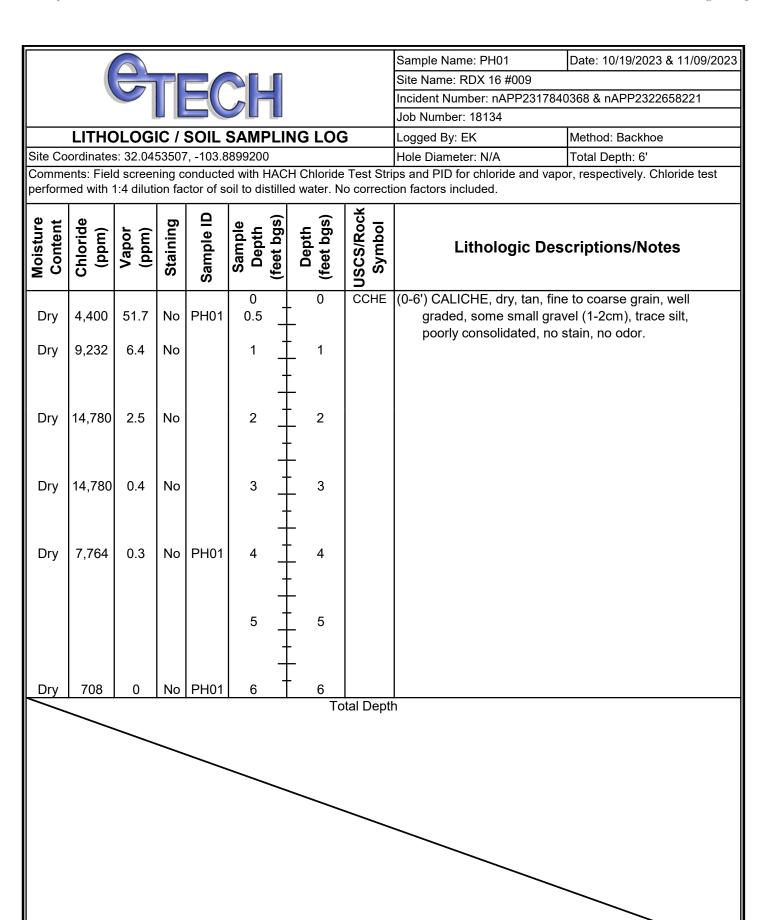
drywell

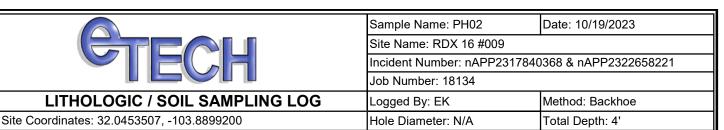
### APPENDIX D

## Lithologic Sampling Logs

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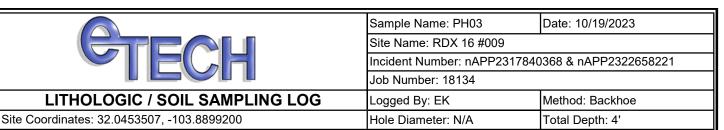




Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	4,060	93	No	PH02	0 0.5	0	CCHE	(0-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, poorly consolidated, no stain, no odor.
Dry	7,764	76	No		1 _	- 1 -		poorly consolidated, no stain, no edor.
Dry	18,384	0	No		2 <u>-</u>	_ - _ 2 -		
Dry	1,696	0	No		3 _	- - 3 -		
Dry	1,584	0	No	PH02	4	4		

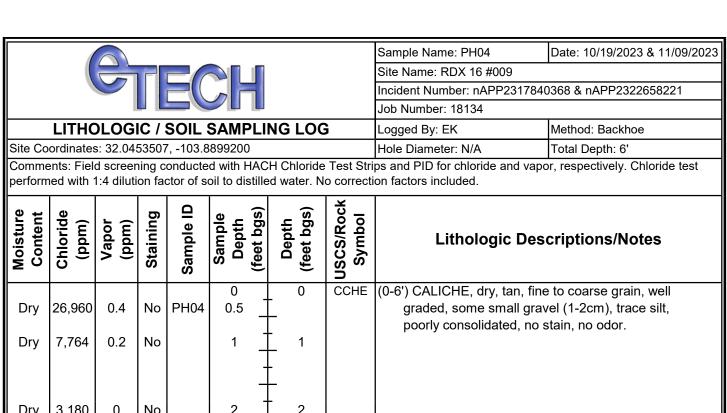
Total Depth



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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	4,060	202.3	No	PH03	0 0.5	- <sup>0</sup>	CCHE	(0-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, poorly consolidated, no stain, no odor.
Dry	900	93.1	No		1 _	- 1 -		
Dry	188	8.2	No	PH03	2 _	- - - 2		
Dry	<112	3.8	No	PH03	3 _	- - 3		
Dry	444	0.3	No	PH03	4	_ - - 4		

Total Depth



No PH04

6

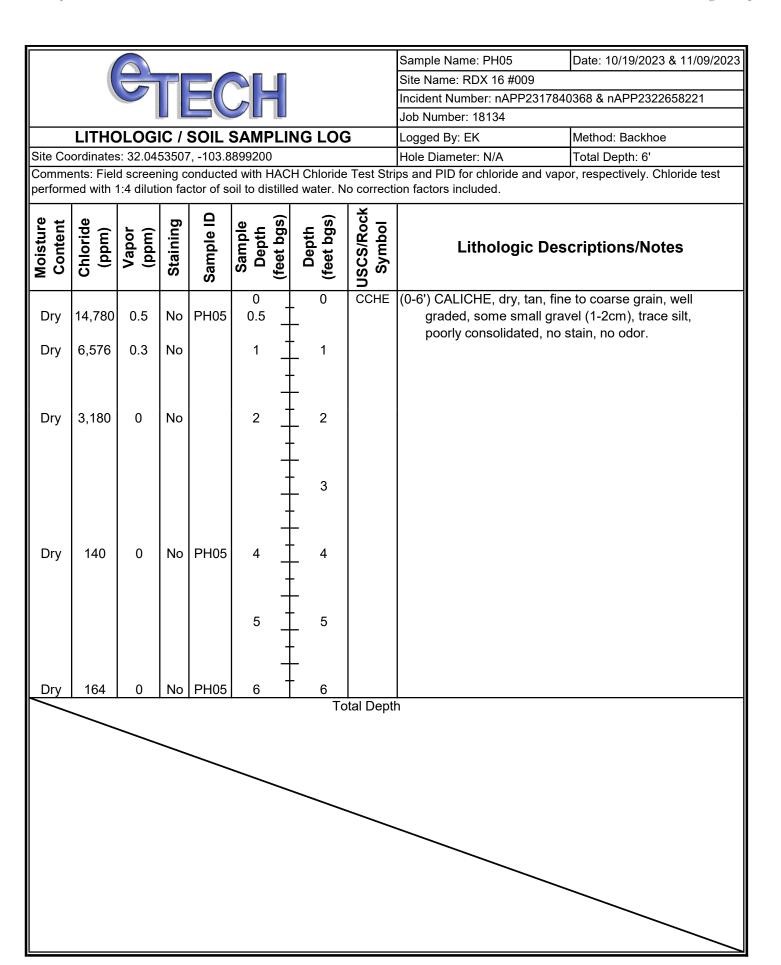
Total Depth

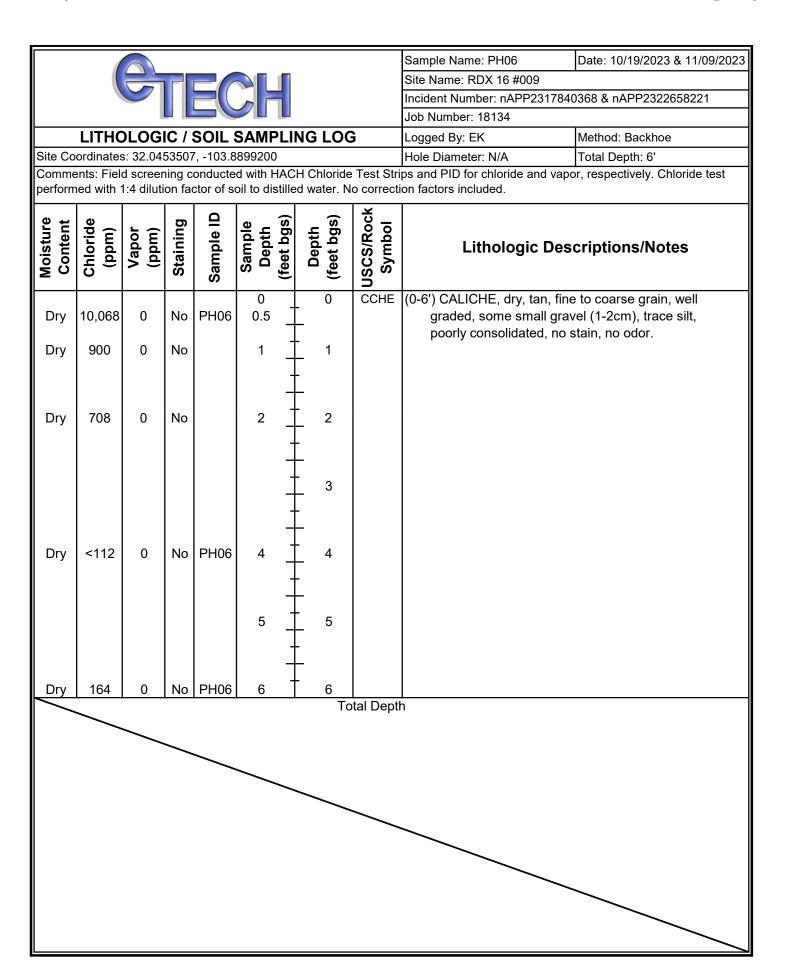
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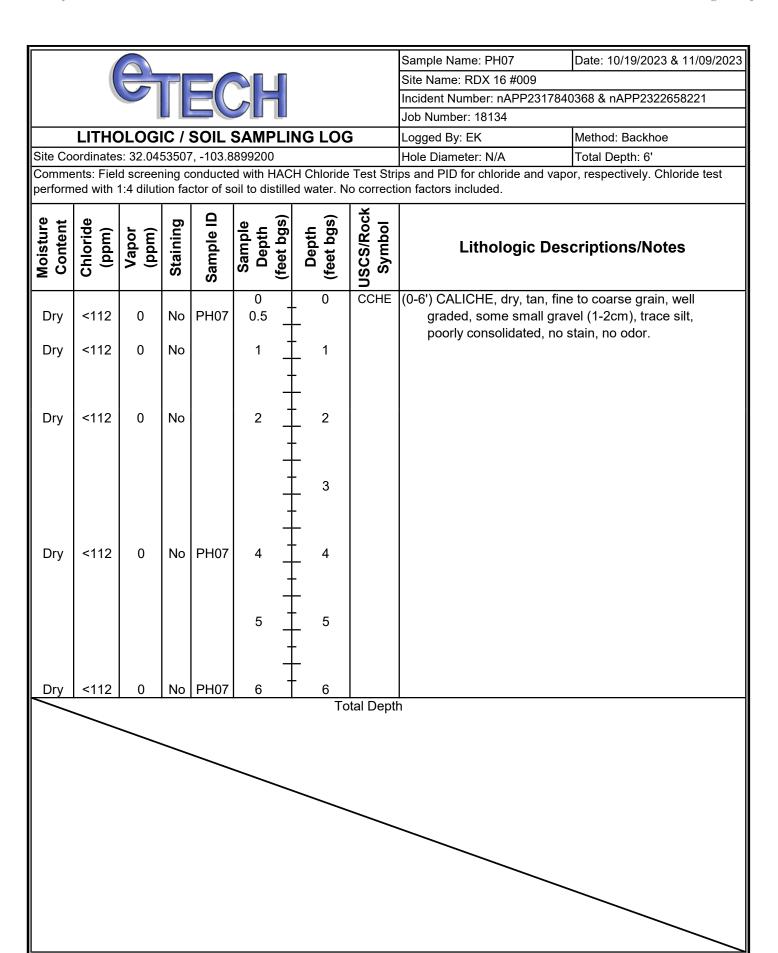
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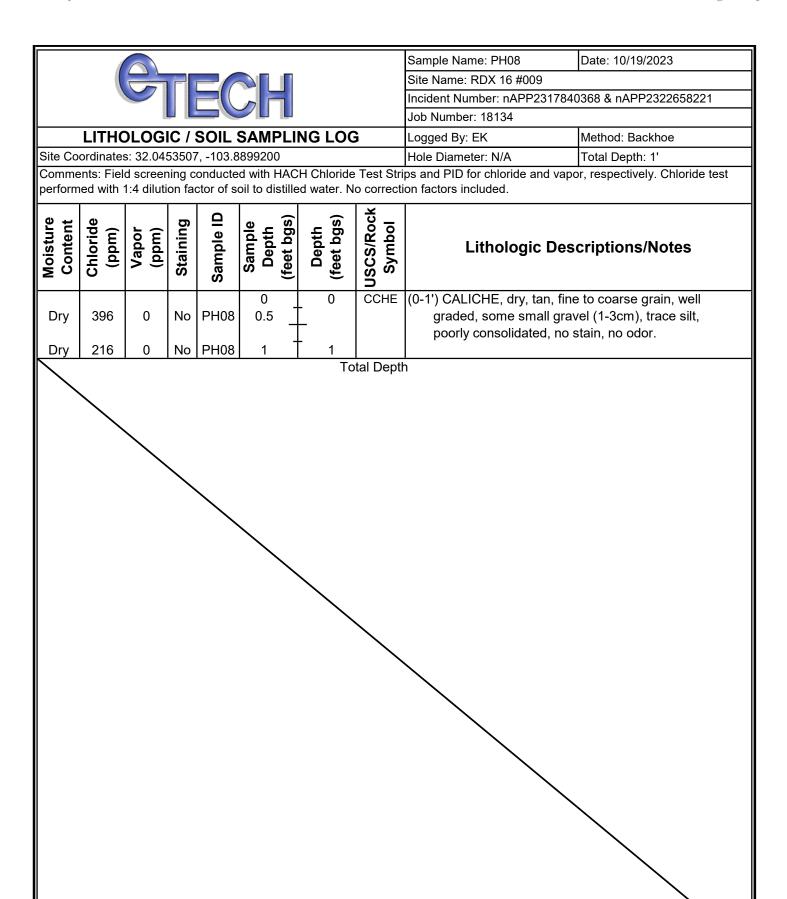
Dry

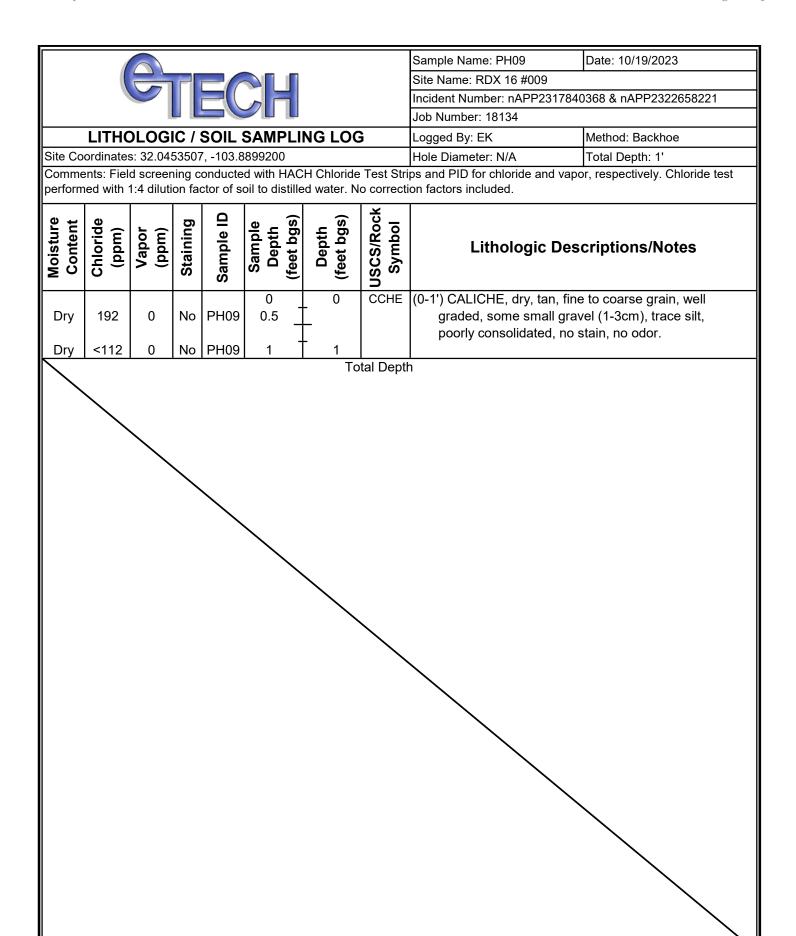
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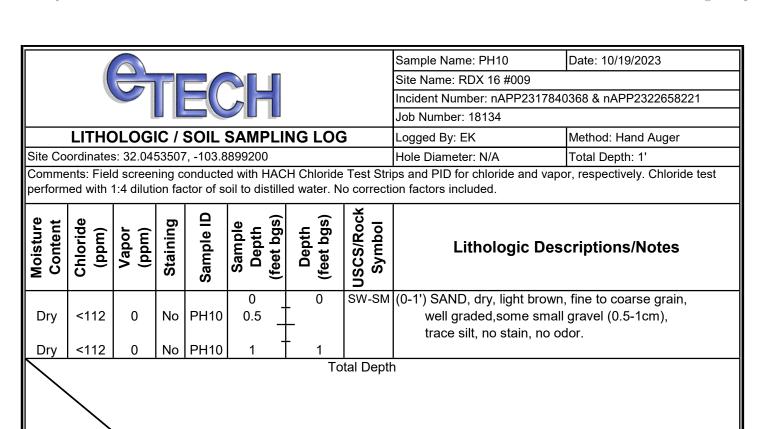


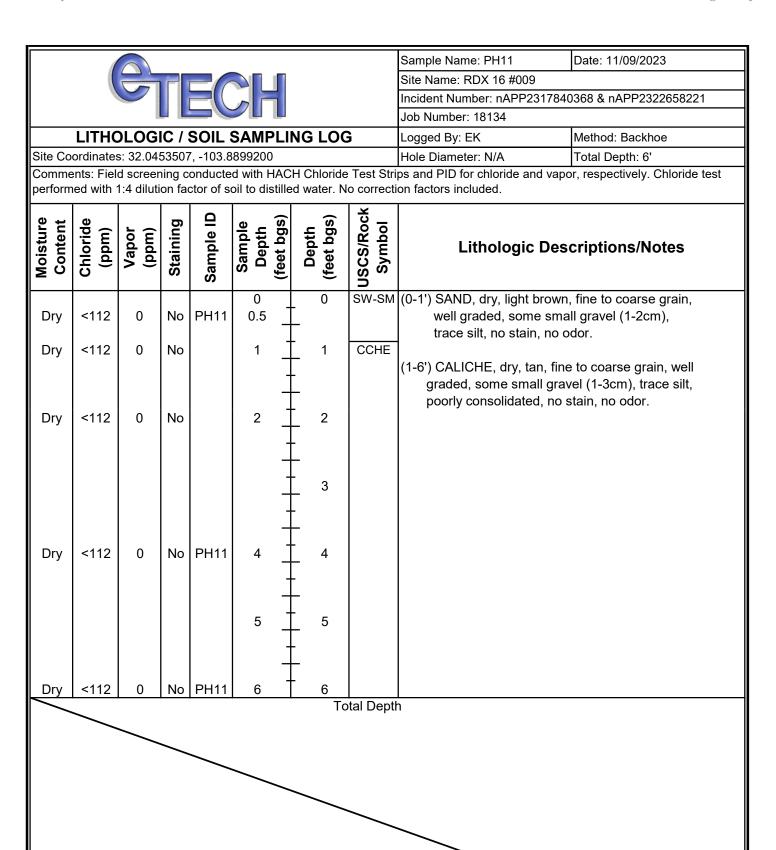


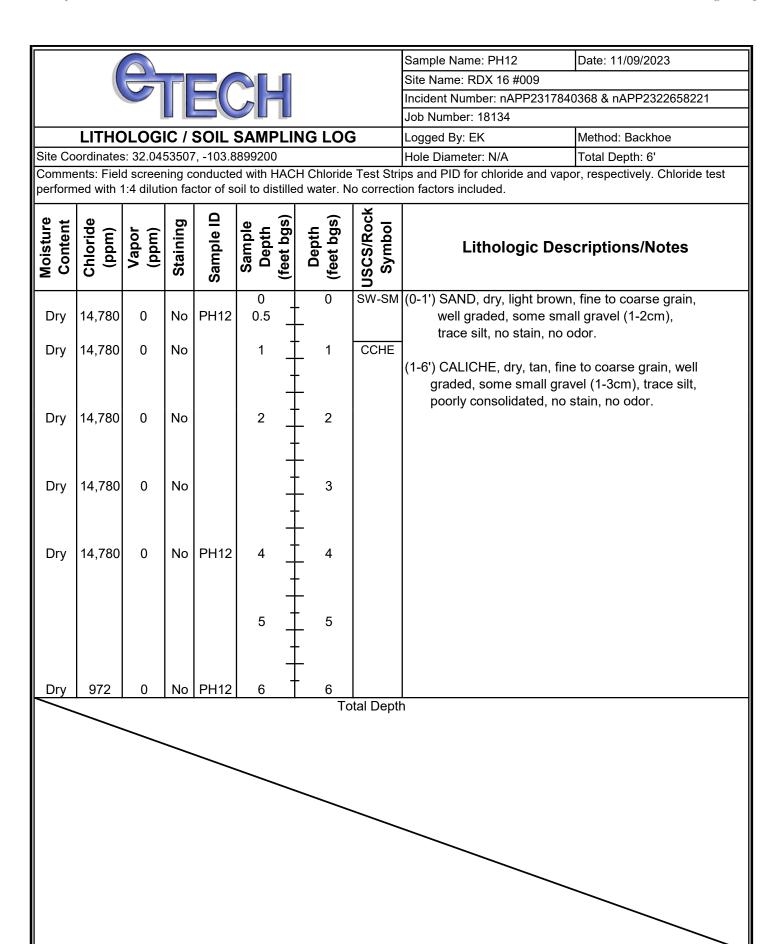


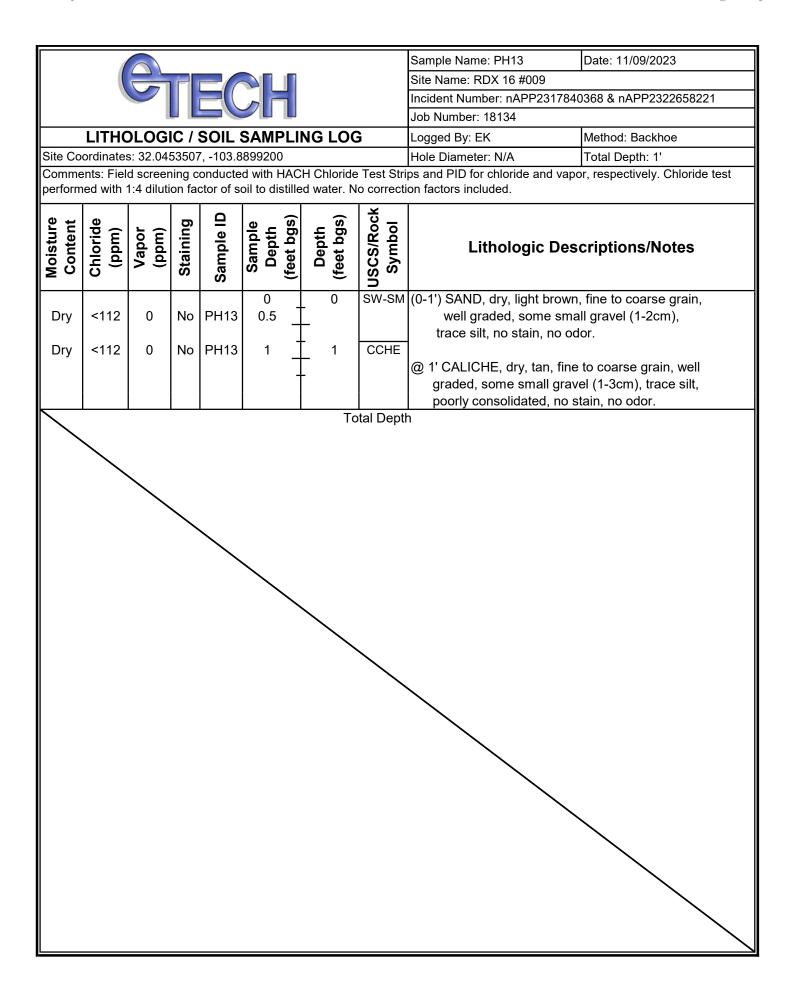


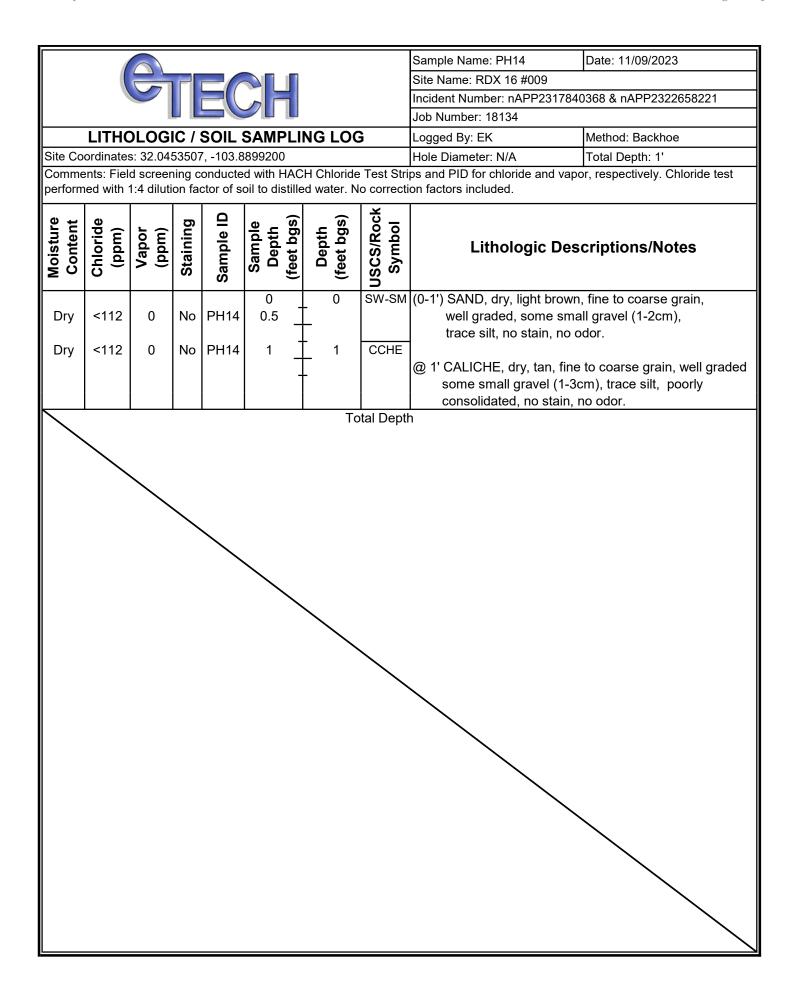












# **APPENDIX E**

Photographic Log

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#### **PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC RDX 16 #009 nAPP2317840368 & nAPP2322658221



Section - 1032 (20095) / -103 8897/5 (± 15 thi)
Attriude - 2007/10 - 116 810
Datum - W65-82
Oktimulin Bearing - 0.9 1
Section - Angle - 10.9 1
Section - 10.5 (clean up)

15. Clean up

Photograph 1 Date:06/27/2023

Description: Southwestern view of release extent during site assessment activities.

Photograph 2 Date:07/13/2023

Description: Northeastern view of initial restoration activities on the pad surface.



Date & Time Thu. Oct 19, 2023 at 09.25.53 MDT
Position +032.045481 / +103.889745 (±11.6th)
Altitude 3109ft (+9.8th)
Datum W058-84
Azimuth/Bearing 339 N21W 6027mils True (±12.)
Elevation Angle -12.9
Horizon Angle -12.9
HOX 16-9

**Photograph 3** Date:08/14/2023
Description: Southeastern view of release extent during site assessment activities.

Photograph 4 Date:10/19/2023

Description: Northwestern view of delineation activities near PH01.



#### PHOTOGRAPHIC LOG

WPX Energy Permian, LLC RDX 16 #009 nAPP2317840368 & nAPP2322658221



Photograph 5 Date:10/19/2023
Description: Southeastern view of delineation activities near PH03.



Photograph 7 Date:11/09/2023
Description: Southwestern view of delineation activities near PH12.



Photograph 6 Date:10/19/2023

Description: Southwestern view of delineation activities near PH04.



Photograph 8 Date:11/09/2023

Description: Southwestern view of delineation activities near PH14.

# **APPENDIX F**

**Tables** 

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# Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC RDX 16 #009 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 Closur Release (NMAC 19.15.		ls Impacted by a	10	50	NE	NE	NE	1,000	2,500	20,000
			D	elineation Soil Samples	s - Incident Numbers n	APP2317840368 & nAP	P2322658221			
PH01	10/19/2023	0.5	<0.0250	0.0335	<20.0	4,050	1,940	4,050	5,990	4,760
PH01	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	23,300
PH01	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	482
PH02	10/19/2023	0.5	<0.0250	<0.0500	69.7	5,870	2,280	5,940	8,220	5,060
PH02	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,440
PH03	10/19/2023	0.5	<0.0250	3.47	133	18,200	7,160	18,300	25,500	4,840
PH03	10/19/2023	2	<0.0250	<0.0500	<20.0	33.7	<50.0	33.7	33.7	236
PH03	10/19/2023	3	<0.0250	<0.0500	<20.0	25.2	<50.0	25.2	25.2	37.8
PH03	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	489.0
PH04	10/19/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	25,200
PH04	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,620
PH04	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	299
PH05	10/19/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	17,700
PH05	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	155
PH05	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	232
PH06	10/19/2023	0.5	<0.0250	<0.0500	<20.0	32.0	<50.0	32.0	32.0	11,600
PH06	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	98.9
PH06	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	222
PH07	10/19/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	55.4
PH07	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	28.5
PH07	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	31.9
PH08	10/19/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	259
PH08	10/19/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	111
PH09	10/19/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	159
PH09	10/19/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	24.7
PH10	10/19/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	157
PH10	10/19/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	25.2
PH11	11/09/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	104
PH11	11/09/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
PH11	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200



# Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC RDX 16 #009 Eddy County, New Mexico

Sample I.D.  NMOCD Table I Closur	Sample Date e Criteria for Soil	Sample Depth (feet bgs) s Impacted by a	Benzene (mg/kg)	Total BTEX (mg/kg)	(mg/kg) (mg/kg) (mg/kg) (mg/kg)			DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)		
Release (NMAC 19.15.2	(9)		10	50	NE	NE	NE	1,000	2,500	20,000		
	Delineation Soil Samples - Incident Numbers nAPP2317840368 & nAPP2322658221											
PH12	11/09/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	14,400		
PH12	11/09/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	14,700		
PH12	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	960		
PH13	11/09/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	94.7		
PH13	11/09/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200		
PH14	11/09/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	107		
PH14	11/09/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200		

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Text in "grey " represents excavated soil samples

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

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

# **APPENDIX G**

Laboratory Analytical Reports & Chain-of-Custody Documentation

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



Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310209

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/27/23

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: 10/27/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #009

Workorder: E310209

Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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Client Representative
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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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#### Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Donoutoda
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 14:09

Client Sample ID	Lab Sample ID Mat	rix Sampled	Received	Container
PH01 0.5'	E310209-01A Sc	il 10/19/23	10/23/23	Glass Jar, 2 oz.
PH01 4'	E310209-02A Sc	il 10/19/23	10/23/23	Glass Jar, 2 oz.
PH02 0.5'	E310209-03A SI	10/19/23	10/23/23	Glass Jar, 2 oz.
PH02 4'	E310209-04A Sc	il 10/19/23	10/23/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:09:04PM

#### PH01 0.5' E310209-01

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Aı	nalyst: RKS		Batch: 2343025
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	0.0335	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	0.0335	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		105 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		100 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		105 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		100 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	4050	250	10	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	1940	500	10	10/23/23	10/25/23	
Surrogate: n-Nonane		88.1 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: RAS		Batch: 2343072
Chloride	4760	40.0	2	10/25/23	10/27/23	



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:09:04PM

#### PH01 4' E310209-02

	D 1	Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: R	kKS		Batch: 2343025
Benzene	ND	0.0250	1		10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1		10/23/23	10/25/23	
Toluene	ND	0.0250	1		10/23/23	10/25/23	
o-Xylene	ND	0.0250	1		10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1		10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1		10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		100 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		98.8 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: R	KS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0	1		10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		100 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		98.8 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: K	ĽM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1		10/23/23	10/25/23	-
Oil Range Organics (C28-C36)	ND	50.0	1		10/23/23	10/25/23	
Surrogate: n-Nonane		85.8 %	50-200		10/23/23	10/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: R	AS		Batch: 2343072
Chloride	23300	1000	50	)	10/25/23	10/27/23	



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:09:04PM

#### PH02 0.5' E310209-03

D. It	Reporting			D 1		N
Result	Limit	Dil	ution	Prepared	Analyzed	Notes
mg/kg	mg/kg		Analyst	: RKS		Batch: 2343025
ND	0.0250		1	10/23/23	10/25/23	
ND	0.0250		1	10/23/23	10/25/23	
ND	0.0250		1	10/23/23	10/25/23	
ND	0.0250		1	10/23/23	10/25/23	
ND	0.0500		1	10/23/23	10/25/23	
ND	0.0250		1	10/23/23	10/25/23	
	101 %	70-130		10/23/23	10/25/23	
	101 %	70-130		10/23/23	10/25/23	
	101 %	70-130		10/23/23	10/25/23	
mg/kg	mg/kg		Analyst	: RKS		Batch: 2343025
69.7	20.0		1	10/23/23	10/25/23	
	101 %	70-130		10/23/23	10/25/23	
	101 %	70-130		10/23/23	10/25/23	
	101 %	70-130		10/23/23	10/25/23	
mg/kg	mg/kg		Analyst	: KM		Batch: 2343027
5870	125		5	10/23/23	10/25/23	
2280	250		5	10/23/23	10/25/23	
	87.3 %	50-200	·	10/23/23	10/25/23	
mg/kg	mg/kg		Analyst	: RAS		Batch: 2343072
5060	100		5	10/25/23	10/27/23	
	ND N	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           IOI %         101 %           101 %         101 %           102 %         101 %           103 %	Result         Limit         Dil           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           101 %         70-130           101 %         70-130           101 %         70-130           101 %         70-130           101 %         70-130           101 %         70-130           101 %         70-130           101 %         70-130           101 %         70-130           105 %         70-130           107 %         70-130           108 %         70-130           109 %         70-130           101 %         70-130           101 %         70-130           101 %         70-130           101 %         70-130           101 %         70-130           101 %         70-130           101 %         70-130	Result         Limit         Dilution           mg/kg         mg/kg         Analyst           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           101%         70-130           101%         70-130           101%         70-130           101%         70-130           101%         70-130           101%         70-130           101%         70-130           101%         70-130           101%         70-130           101%         70-130           101%         70-130           5870         125         5           2280         250         5           87.3%         50-200           mg/kg         Analyst	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/23/23           ND         0.0250         1         10/23/23           ND         0.0250         1         10/23/23           ND         0.0500         1         10/23/23           ND         0.0250         1         10/23/23           ND         0.0250         1         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           102 %         5         10/23/23	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/23/23         10/25/23           ND         0.0500         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           101 %         70-130         10/23/23         10/25/23           101 %         70-130         10/23/23         10/25/23           mg/kg         mg/kg         Analyst: RKS           69.7         20.0         1         10/23/23         10/25/23           101 %         70-130         10/23/23         10/25/23           101 %         70-130         10/23/23         10/25/23           mg/kg



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:09:04PM

#### PH02 4' E310209-04

	E510207 04				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: RKS		Batch: 2343044
ND	0.0250	1	10/24/23	10/26/23	
ND	0.0250	1	10/24/23	10/26/23	
ND	0.0250	1	10/24/23	10/26/23	
ND	0.0250	1	10/24/23	10/26/23	
ND	0.0500	1	10/24/23	10/26/23	
ND	0.0250	1	10/24/23	10/26/23	
	94.8 %	70-130	10/24/23	10/26/23	
mg/kg	mg/kg	Anal	yst: RKS		Batch: 2343044
ND	20.0	1	10/24/23	10/26/23	
	92.3 %	70-130	10/24/23	10/26/23	
mg/kg	mg/kg	Anal	yst: KM		Batch: 2343042
ND	25.0	1	10/24/23	10/24/23	
ND	50.0	1	10/24/23	10/24/23	
	91.4 %	50-200	10/24/23	10/24/23	
mg/kg	mg/kg	Anal	yst: RAS		Batch: 2343072
2440	40.0	2	10/25/23	10/27/23	
	mg/kg ND Mg/kg ND mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         0.0250           94.8 %         mg/kg           MD         20.0           92.3 %         mg/kg           ND         25.0           ND         50.0           91.4 %         mg/kg           mg/kg         mg/kg	mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           94.8 %         70-130           mg/kg         mg/kg         Anal           ND         20.0         1           92.3 %         70-130         1           mg/kg         mg/kg         Anal           ND         25.0         1           ND         50.0         1           91.4 %         50-200           mg/kg         mg/kg         Anal	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/24/23           ND         0.0250         1         10/24/23           ND         0.0250         1         10/24/23           ND         0.0500         1         10/24/23           ND         0.0250         1         10/24/23           ND         0.0250         1         10/24/23           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         10/24/23           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         10/24/23           ND         25.0         1         10/24/23           ND         50.0         1         10/24/23           ND         50.0         1         10/24/23           Mg/kg         mg/kg         Analyst: RAS	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/24/23         10/26/23           ND         0.0250         1         10/24/23         10/26/23           ND         0.0250         1         10/24/23         10/26/23           ND         0.0500         1         10/24/23         10/26/23           ND         0.0250         1         10/24/23         10/26/23           ND         0.0250         1         10/24/23         10/26/23           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         10/24/23         10/26/23           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         10/24/23         10/26/23           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         10/24/23         10/24/23           ND         50.0         1         10/24/23         10/24/23           ND         50.0         1         10/24/23         10/24/23           Mg/kg         mg/kg



RDX 16 #009 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 10/27/2023 2:09:04PM Volatile Organic Compounds by EPA 8260B Analyst: RKS Source RPD Reporting Spike Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2343025-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: Bromofluorobenzene 0.525 0.500 105 70-130 Surrogate: 1,2-Dichloroethane-d4 0.496 0.500 99.2 70-130 0.498 0.500 99.5 70-130 Surrogate: Toluene-d8 LCS (2343025-BS1) Prepared: 10/23/23 Analyzed: 10/25/23 2.19 0.0250 2.50 87.8 70-130 Benzene 70-130 2.25 2.50 90.2 0.0250 Ethylbenzene 70-130 Toluene 2.16 0.0250 2.50 86.3 2.25 2.50 90.1 70-130 0.0250 o-Xylene 88.0 4.40 5.00 70-130 p,m-Xylene 0.0500 6.65 0.0250 7.50 88.7 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.509 0.500 102 70-130 0.500 102 70-130 Surrogate: 1,2-Dichloroethane-d4 0.512 Surrogate: Toluene-d8 0.500 70-130 0.493 Matrix Spike (2343025-MS1) Source: E310207-01 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.30	0.0250	2.50	ND	91.9	48-131	3.36	23		
Matrix Spike Dup (2343025-MSD1)				Source:	E310207-	01	Prepared: 10	/23/23	Analyzed: 10/25/23	
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130				
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130				
Total Xylenes	7.16	0.0250	7.50	ND	95.5	43-135				
p,m-Xylene	4.75	0.0500	5.00	ND	94.9	43-135				
o-Xylene	2.42	0.0250	2.50	ND	96.6	43-135				
Toluene	2.35	0.0250	2.50	ND	94.0	48-130				
Ethylbenzene	2.46	0.0250	2.50	ND	98.3	45-135				
Benzene	2.38	0.0250	2.50	ND	95.0	48-131				

							1		,	
Benzene	2.30	0.0250	2.50	ND	91.9	48-131	3.36	23		
Ethylbenzene	2.41	0.0250	2.50	ND	96.3	45-135	1.97	27		
Toluene	2.31	0.0250	2.50	ND	92.5	48-130	1.63	24		
o-Xylene	2.40	0.0250	2.50	ND	96.0	43-135	0.644	27		
p,m-Xylene	4.70	0.0500	5.00	ND	94.1	43-135	0.910	27		
Total Xylenes	7.10	0.0250	7.50	ND	94.7	43-135	0.820	27		
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130				
Surrogate: Toluene-d8	0.503		0.500		101	70-130				

		QC 50	u 11111110	iry Data	L				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 16 #009 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					10/27/2023 2:09:04PM
		Volatile O	rganics l	by EPA 802	1B				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 (2343044-BLK1)							Prepared: 1	0/24/23 <i>A</i>	Analyzed: 10/26/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			
LCS (2343044-BS1)							Prepared: 1	0/24/23 A	Analyzed: 10/26/23
Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	5.04	0.0250	5.00		101	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.1	70-130			
Matrix Spike (2343044-MS1)				Source: 1	E310226-	02	Prepared: 1	0/24/23 A	Analyzed: 10/26/23
Benzene	5.30	0.0250	5.00	ND	106	54-133			
Ethylbenzene	5.22	0.0250	5.00	ND	104	61-133			
Toluene	5.29	0.0250	5.00	ND	106	61-130			
o-Xylene	5.22	0.0250	5.00	ND	104	63-131			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
Total Xylenes	15.8	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			
Matrix Spike Dup (2343044-MSD1)				Source: 1	E310226-	02	Prepared: 1	0/24/23 A	Analyzed: 10/26/23
Benzene	5.44	0.0250	5.00	ND	109	54-133	2.60	20	
Ethylbenzene	5.37	0.0250	5.00	ND	107	61-133	2.77	20	
Toluene	5.43	0.0250	5.00	ND	108	61-130	2.59	20	
o-Xylene	5.37	0.0250	5.00	ND	107	63-131	2.73	20	
V-1	10.0	0.0500	100	ND	100	62 121	2.61	20	

10.0

15.0

8.00

0.0500

0.0250

ND

ND

109

108

63-131

63-131

70-130

20

20

2.61

2.65



p,m-Xylene Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

10.9

16.3

7.71

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

#### **QC Summary Data**

 WPX Energy - Carlsbad
 Project Name:
 RDX 16 #009
 Reported:

 5315 Buena Vista Dr
 Project Number:
 01058-0007

 Carlsbad NM, 88220
 Project Manager:
 Gilbert Moreno
 10/27/2023 2:09:04PM

Carlsbad NM, 88220		Project Manager	: Gi	ilbert Moreno					10/27/2023 2:09:04PM
	Non	halogenated (	Organics	by EPA 801	5D - GI	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 (2343025-BLK1)							Prepared: 1	0/23/23 A	Analyzed: 10/25/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			
LCS (2343025-BS2)							Prepared: 1	0/23/23 A	Analyzed: 10/25/23
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			
Matrix Spike (2343025-MS2)				Source: I	E310207-0	01	Prepared: 10	0/23/23 A	Analyzed: 10/25/23
Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			
Matrix Spike Dup (2343025-MSD2)				Source: I	E310207-0	01	Prepared: 1	0/23/23 A	Analyzed: 10/25/23
Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	3.35	20	

0.500

0.500

0.500

0.519

0.501

0.502

104

100

100

70-130

70-130

70-130



WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Number:	RDX 16 #009 01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:09:04PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno	,			10	0/27/2023 2:09:04Pl	
	Nor	nhalogenated	Organics l	by EPA 80	15D - Gl	RO		Analyst: RKS		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes	
Blank (2343044-BLK1)							Prepared: 1	.0/24/23 An	alyzed: 10/26/23	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130				
LCS (2343044-BS2)							Prepared: 1	0/24/23 An	alyzed: 10/26/23	
Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.1	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130				
Matrix Spike (2343044-MS2)				Source:	E310226-	02	Prepared: 1	0/24/23 An	alyzed: 10/26/23	
Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130				
Matrix Spike Dup (2343044-MSD2)				Source:	E310226-	02	Prepared: 1	0/24/23 An	alyzed: 10/26/23	
Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130	1.17	20		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130				

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:09:04PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno					10/27/2023 2:09:04PI
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2343027-BLK1)							Prepared: 1	0/23/23 A	Analyzed: 10/24/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			
LCS (2343027-BS1)							Prepared: 1	0/23/23 A	Analyzed: 10/24/23
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			
Matrix Spike (2343027-MS1)				Source:	E310204-	06	Prepared: 1	0/23/23 A	Analyzed: 10/24/23
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			
Matrix Spike Dup (2343027-MSD1)				Source:	E310204-	06	Prepared: 1	0/23/23 A	Analyzed: 10/24/23
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
Surrogate: n-Nonane	47.2		50.0		94.4	50-200			



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:09:04PM

Carlsbad NM, 88220		Project Manager	r: G1	lbert Moreno					10/27/2023 2:09:04PM
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2343042-BLK1)							Prepared: 1	0/24/23 A	nalyzed: 10/24/23
iesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	48.2		50.0		96.3	50-200			
CS (2343042-BS1)							Prepared: 1	0/24/23 A	nalyzed: 10/24/23
iesel Range Organics (C10-C28)	240	25.0	250		96.0	38-132			
urrogate: n-Nonane	46.0		50.0		92.1	50-200			
Matrix Spike (2343042-MS1)				Source:	E310238-	02	Prepared: 1	0/24/23 A	nalyzed: 10/24/23
iesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132			
urrogate: n-Nonane	49.1		50.0		98.3	50-200			
Matrix Spike Dup (2343042-MSD1)				Source:	E310238-	02	Prepared: 1	0/24/23 A	nalyzed: 10/24/23
iesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132	6.50	20	
urrogate: n-Nonane	52.1		50.0		104	50-200			

WPX Energy - Carlsbad		Project Name:		DX 16 #009					Reported:	
5315 Buena Vista Dr		Project Number:		.058-0007					40/05/0000	
Carlsbad NM, 88220		Project Manager	: Gi	ilbert Moreno					10/27/2023 2:09:04P	M
		Anions	by EPA 3	300.0/90 <b>5</b> 6 <i>E</i>	4				Analyst: RAS	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2343072-BLK1)							Prepared:	10/25/23	Analyzed: 10/26/23	
Chloride	ND	20.0								
LCS (2343072-BS1)							Prepared:	10/25/23	Analyzed: 10/26/23	
Chloride	247	20.0	250		98.9	90-110				
Matrix Spike (2343072-MS1)				Source:	E310202-0	)1	Prepared:	10/25/23	Analyzed: 10/26/23	
Chloride	364	20.0	250	96.3	107	80-120				
Matrix Spike Dup (2343072-MSD1)				Source:	E310202-0	)1	Prepared:	10/25/23	Analyzed: 10/26/23	
Chloride	368	20.0	250	96.3	109	80-120	0.938	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 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 14:09

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



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Client: V	/PX Energ	y Permia	in, LLC.			Bill To				l	ab U	se O	nly					T/	AT		EPA P	rogram
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	13000 W					ty, State, Zip: Carlsbad, NM, 882	.20					Anal	ysis a	nd Me	thod							RCRA
	te, Zip_Oo		79765		P	none: 575-885-7502			Τ.,	$^{-}$	Г											<u> </u>
	32-541-7				E	mail: jim.raley@dvn.com			İ	1	1		l								State	
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envirotech

envirotech Inc.

Printed: 10/23/2023 1:01:52PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	10/23/23	08:15	Work Order ID:	E310209
Phone:	(539) 573-4018	Date Logged In:	10/23/23	10:31	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23	17:00 (4 day TAT)		
Chain of	Custody (COC)					
1. Does th	ne sample ID match the COC?		Yes			
2. Does th	ne number of samples per sampling site location ma	tch the COC	Yes			
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucssi		Yes		<u>Comment</u>	s/Resolution
Sample T	Turn Around Time (TAT)					
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C						
	sample cooler received?		Yes			
	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?		No			
	were custody/security seals intact?					
•	,		NA			
	e sample received on ice? If yes, the recorded temp is 4°C  Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes			
	Container .	· —	_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	9	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lat		nois conceica.	105			
	field sample labels filled out with the minimum info	ormation:				
	ample ID?	omiation.	Yes			
	pate/Time Collected?		Yes			
C	ollectors name?		Yes			
Sample F	<u>Preservation</u>					
21. Does	the COC or field labels indicate the samples were p	reserved?	No			
22. Are sa	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved r	netals?	No			
Multipha	se Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	ise?	No			
	, does the COC specify which phase(s) is to be anal		NA			
	act Laboratory					
	amples required to get sent to a subcontract laborate	aru?	No			
	subcontract laboratory specified by the client and i	-	NA	Subcontract Lab: NA		
Client In	<u>istruction</u>					
						_

Date

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

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310203

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/27/23

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: 10/27/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #009

Workorder: E310203

Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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**Alexa Michaels** 

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Client Representative Office: 505-421-LABS(5227)

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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#### **Sample Summary**

_			<u> </u>	
ſ	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported.
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 10:13

Client Sample ID	Lab Sample ID Ma	atrix	Sampled	Received	Container
PH03 0.5'	E310203-01A S	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:13:05AM

#### PH03 0.5' E310203-01

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	0.790	0.0250	1	10/23/23	10/25/23	
Toluene	0.226	0.0250	1	10/23/23	10/25/23	
o-Xylene	2.03	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	0.424	0.0500	1	10/23/23	10/25/23	
Total Xylenes	2.45	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	·	103 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		114 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg Analyst: RKS				Batch: 2343024
Gasoline Range Organics (C6-C10)	133	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		114 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	18200	1250	50	10/23/23	10/24/23	
Oil Range Organics (C28-C36)	7160	2500	50	10/23/23	10/24/23	
Surrogate: n-Nonane		127 %	50-200	10/23/23	10/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2343043
Chloride	4840	40.0	2	10/24/23	10/24/23	



WPX Energy - Carlsbad Project Name: RDX 16 #009 Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 10/27/2023 10:13:05AM

Carlsbad NM, 88220		Project Manager	r: Gi	lbert Moreno				10/2	27/2023 10:13:05A
	V	olatile Organi	ic Compo	unds by EF	PA 82601	В			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 (2343024-BLK1)							Prepared: 1	0/23/23 Ana	lyzed: 10/25/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			
LCS (2343024-BS1)							Prepared: 10	0/23/23 Ana	yzed: 10/25/23
Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.69	0.0250	2.50		107	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
o,m-Xylene	5.25	0.0500	5.00		105	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			
Matrix Spike (2343024-MS1)				Source:	E310202-	02	Prepared: 10	0/23/23 Anal	lyzed: 10/25/23
Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135			
Toluene	2.62	0.0250	2.50	ND	105	48-130			
o-Xylene	2.49	0.0250	2.50	ND	99.4	43-135			
p,m-Xylene	5.01	0.0500	5.00	ND	100	43-135			
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			
Matrix Spike Dup (2343024-MSD1)				Source:	E310202-	02	Prepared: 10	0/23/23 Ana	yzed: 10/25/23
Benzene	2.33	0.0250	2.50	ND	93.3	48-131	5.10	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.4	45-135	5.38	27	
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	6.15	24	
o-Xylene	2.32	0.0250	2.50	ND	92.6	43-135	7.10	27	
p,m-Xylene	4.71	0.0500	5.00	ND	94.2	43-135	6.24	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.7	43-135	6.53	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
mirogane. 1,2 Diemoroemune ur	0.722		0.500		100	50 15°			

0.500

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70-130

0.541

Surrogate: Toluene-d8

WPX Energy - CarlsbadProject Name:RDX 16 #009Reported:5315 Buena Vista DrProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno10/27/2023 10:13:05AM

	Nonl	halogenated (	Organics l	by EPA 801	15D - G	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

,	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2343024-BLK1)							Prepared: 1	0/23/23 Ana	lyzed: 10/25/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			
LCS (2343024-BS2)							Prepared: 1	0/23/23 Anal	lyzed: 10/25/23
Gasoline Range Organics (C6-C10)	58.5	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.558		0.500		112	70-130			
Matrix Spike (2343024-MS2)				Source:	E310202-	02	Prepared: 1	0/23/23 Anai	lyzed: 10/25/23
Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			
Matrix Spike Dup (2343024-MSD2)				Source:	E310202-	02	Prepared: 1	0/23/23 Anal	lyzed: 10/25/23
Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130	1.03	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surroguic. Bromojiuorobenzene	0.505		0.500		101	70 150			
Surrogate: 1,2-Dichloroethane-d4	0.303 0.479		0.500		95.8	70-130			



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:13:05AM

Carlsbad NM, 88220		Project Manager	r: Gi	lbert Moreno					10/2//2023 10:13:05A
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2343027-BLK1)							Prepared: 1	0/23/23 A	nalyzed: 10/24/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	47.0		50.0		93.9	50-200			
LCS (2343027-BS1)							Prepared: 1	0/23/23 A	nalyzed: 10/24/23
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
urrogate: n-Nonane	47.7		50.0		95.3	50-200			
Matrix Spike (2343027-MS1)				Source:	E310204-	06	Prepared: 1	0/23/23 A	nalyzed: 10/24/23
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
urrogate: n-Nonane	51.1		50.0		102	50-200			
Matrix Spike Dup (2343027-MSD1)				Source:	E310204-	06	Prepared: 1	0/23/23 A	nalyzed: 10/24/23
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
Gurrogate: n-Nonane	47.2		50.0		94.4	50-200			

## **QC Summary Data**

WPX Energy - Carlsbad		Project Name:		OX 16 #009					Reported	l:
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:		058-0007 lbert Moreno					10/27/2023 10:1	3:05AM
Carisoad Wii, 66220				00.0/9056A	<u> </u>				Analyst: RAS	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	:	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Note	s
Blank (2343043-BLK1)							Prepared:	10/24/23	Analyzed: 10/24	1/23
Chloride	ND	20.0								
LCS (2343043-BS1)							Prepared:	10/24/23	Analyzed: 10/24	1/23
Chloride	230	20.0	250		92.1	90-110				
Matrix Spike (2343043-MS1)				Source:	E310238-0	)3	Prepared:	10/24/23	Analyzed: 10/24	1/23
Chloride	743	200	250	542	80.4	80-120				
Matrix Spike Dup (2343043-MSD1)				Source:	E310238-0	)3	Prepared:	10/24/23	Analyzed: 10/24	1/23
Chloride	728	200	250	542	74.1	80-120	2.13	20	M2	

#### QC Summary Report Comment:

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



## **Definitions and Notes**

	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
-	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 10:13

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

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Released to Imaging: 3/7/2024 4:39:47 PM

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amples is a	pplicable o	nly to those	e samples	received by	the laboratory w	ith this COC. The liability of the laborate	rv is limited	to the	amo	unt na	id for	on the		,, 44 UK	·	ex	per DC.		epor	. ior ine an	mysis or the	2 400VG



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Printed: 10/23/2023 12:42:26PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	10/23/23	08:15		Work Order ID:	E310203
Phone:	(539) 573-4018	Date Logged In:	10/23/23	09:13		Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	Carrier. <u>c</u>	<u>ourici</u>		
	Il samples received within holding time?	iou unung sos.	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic			ı		Comment	s/Resolution
Sample 1	Turn Around Time (TAT)						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
	, ,	temperature. 4	<u>c</u>				
	Container queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?	•	Yes				
	appropriate volume/weight or number of sample contains		Yes				
Field Lal	· · · · · · · · · · · · · · · · · · ·	iers conecteur	105				
	field sample labels filled out with the minimum info	rmation:					
	ample ID?	imation.	Yes				
	pate/Time Collected?		Yes				
C	ollectors name?		Yes				
Sample I	Preservation_						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborator	w9	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	· NA		
		so who.	1121	Subcontract Lac	, IVA		
Client II	<u>nstruction</u>						

Page 12 of 12

Date

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

## **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310206

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/27/23

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: 10/27/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #009

Workorder: E310206

Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

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mgonzales@envirotech-inc.com

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QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
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## **Sample Summary**

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ſ	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
l	5315 Buena Vista Dr	Project Number:	01058-0007	Kepoi teu.
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 10:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH03 2'	E310206-01A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.



# Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:20:28AM

#### PH03 2' E310206-01

		E010200 01					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Anaryte	Result	Limit	Dil	ution	Frepared	Anaryzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS			Batch: 2343024
Benzene	ND	0.0250		1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250		1	10/23/23	10/25/23	
Toluene	ND	0.0250		1	10/23/23	10/25/23	
o-Xylene	ND	0.0250		1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500		1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250		1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		98.6 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		109 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg Analyst: RKS				Batch: 2343024	
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		98.6 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		109 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	33.7	25.0		1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0		1	10/23/23	10/25/23	
Surrogate: n-Nonane		86.6 %	50-200		10/23/23	10/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: RAS		Batch: 2343043
Chloride	236	20.0		1	10/24/23	10/24/23	_



## **QC Summary Data**

	V1.0 0 . C	amnounds by EDA 9260D	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:20:28AM
5315 Buena Vista Dr	Project Number:	01058-0007	•
WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:

Carlsbad NM, 88220		Project Manage	r: Gi	ilbert Moreno				10/2	7/2023 10:20:28Al
	V	olatile Organ	ic Compo	unds by EP	A 8260I	В		Α	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 (2343024-BLK1)							Prepared: 1	0/23/23 Analy	/zed: 10/25/23
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	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			
LCS (2343024-BS1)							Prepared: 1	0/23/23 Analy	zed: 10/25/23
Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.69	0.0250	2.50		107	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
o,m-Xylene	5.25	0.0500	5.00		105	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			
Matrix Spike (2343024-MS1)				Source: I	E310202-0	02	Prepared: 10	0/23/23 Analy	zed: 10/25/23
Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135			
Toluene	2.62	0.0250	2.50	ND	105	48-130			
o-Xylene	2.49	0.0250	2.50	ND	99.4	43-135			
p,m-Xylene	5.01	0.0500	5.00	ND	100	43-135			
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			
Matrix Spike Dup (2343024-MSD1)				Source: I	E310202-	02	Prepared: 10	0/23/23 Analy	zed: 10/25/23
Benzene	2.33	0.0250	2.50	ND	93.3	48-131	5.10	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.4	45-135	5.38	27	
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	6.15	24	
p-Xylene	2.32	0.0250	2.50	ND	92.6	43-135	7.10	27	
p,m-Xylene	4.71	0.0500	5.00	ND	94.2	43-135	6.24	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.7	43-135	6.53	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			

0.500

70-130

Surrogate: Toluene-d8

0.541

 ${\it Surrogate: Bromofluor obenzene}$ 

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

## **QC Summary Data**

WPX Energy - CarlsbadProject Name:RDX 16 #009Reported:5315 Buena Vista DrProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno10/27/2023 10:20:28AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				10/2	7/2023 10:20:28A
	Non	halogenated	Organics	by EPA 80	15D - Gl	RO		A	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 (2343024-BLK1)							Prepared: 1	0/23/23 Anal	yzed: 10/25/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			
LCS (2343024-BS2)							Prepared: 1	0/23/23 Anal	yzed: 10/25/23
Gasoline Range Organics (C6-C10)	58.5	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.558		0.500		112	70-130			
Matrix Spike (2343024-MS2)				Source:	E310202-	02	Prepared: 1	0/23/23 Anal	yzed: 10/25/23
Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			
Matrix Spike Dup (2343024-MSD2)				Source:	E310202-	02	Prepared: 1	0/23/23 Anal	yzed: 10/25/23
Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130	1.03	20	

0.500

0.500

0.500

0.505

0.479

0.557

101

95.8

111

70-130

70-130

70-130



## **QC Summary Data**

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	-
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:20:28AM

Project Manage	r: Gi	lbert Moreno					10/27/2023 10:20:28A
logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: KM
Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
					Prepared: 1	0/23/23 A	Analyzed: 10/24/23
25.0							
50.0							
	50.0		93.9	50-200			
					Prepared: 1	0/23/23 A	Analyzed: 10/24/23
25.0	250		104	38-132			
	50.0		95.3	50-200			
		Source:	E310204-	06	Prepared: 1	0/23/23 A	Analyzed: 10/24/23
25.0	250	ND	107	38-132			
	50.0		102	50-200			
		Source:	E310204-	06	Prepared: 1	0/23/23 A	Analyzed: 10/24/23
25.0	250	ND	99.6	38-132	6.88	20	
	50.0		94.4	50-200			
- L	Reporting Limit mg/kg  25.0 50.0	Reporting Limit Level mg/kg mg/kg  25.0 50.0  25.0 25.0 25.0 50.0  25.0 25.0	Source	Source   Source   Result   Rec   R	Source   Result   Rec   Limits   mg/kg   mg/	Reporting   Spike   Source   Rec   Limits   RPD   mg/kg   mg/kg   mg/kg   %   %   %   %   %   %   %   %   %	Reporting   Spike   Level   Result   Rec   Limits   RPD   Limit   mg/kg   mg/kg   mg/kg   % % % % % % % % % % % % % % % % % %



Chloride

M2

## **QC Summary Data**

WPX Energy - Carlsbad		Project Name:		DX 16 #009					Report	ted:
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager		1058-0007 Gilbert Moreno					10/27/2023 10	):20:28AM
		Anions	by EPA	300.0/9056A					Analyst: R	AS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPE Limi		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	No	tes
Blank (2343043-BLK1)							Prepared:	10/24/23	Analyzed: 10/	24/23
Chloride	ND	20.0								
LCS (2343043-BS1)							Prepared:	10/24/23	Analyzed: 10/	24/23
Chloride	230	20.0	250		92.1	90-110				
Matrix Spike (2343043-MS1)				Source:	E310238-	03	Prepared:	10/24/23	Analyzed: 10/	24/23
Chloride	743	200	250	542	80.4	80-120				
Matrix Spike Dup (2343043-MSD1)				Source:	E310238-	03	Prepared:	10/24/23	Analyzed: 10/	24/23

250

200

74.1

80-120

2.13

#### 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**

Γ	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
l	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 10:20

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

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Project In	formatio	1				•	Chain o	f Cu	stody	y												Pa
Client: W	PX Energ	Permia	n, LLC.		TT	Bili To		γ			ab II	se Or	nlv					TA	\ <del>T</del>		EQA (	Program
Project: F	RDX 16#0	09			Atte	ention: Jim Raley		lah	WO		300	Job		ber	$\dashv$	1D	2D	3D		andard	CWA	SDWA
	lanager: (				Add	lress: 5315 Buena Vista Dr.		F	31	Ď2.	Osc	211	)5 <sup>8</sup>	-00	57	-	-			day TAT	CVVA	JUVA
	13000 W				City	, State, Zip: Carlsbad, NM, 88	220	T		34.44.		Analy	rsis a	nd Me	thod	1		,i				RCRA
City, Stat	e, Zip_Od	essa,TX,	79765			ne: 575-885-7502	············	1	T	T		Γ	T	ПТ			П					1
	32-541-77				Ema	ail: jlm.raley@dvn.com		1	8015		[	l			ı						State	·
Email: De	evon-tean	@etech	env.com			: 21191055		1	₹ 3				l	l						NM CO	UT AZ	! TX
					Inci	dent ID: nAPP2322658221,		1	8	1												
Collected	l by: Edyt	e Konan			nAF	PP2317840368		_	/080/c	1208	98	010	300.0		l	ž		¥				
Time Sampled	Date Sampled	Matrix	No. of Conceivers	Sample IC	)		Lab Number	Oepth(ft.)	трн сво/ово/ово	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			Верос		900			Remark	s
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						<u></u>	Container					AVG										



envirotech

Printed: 10/23/2023 12:53:29PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	10/23/23 0	8:15	Work Order ID:	E310206
Phone:	(539) 573-4018	Date Logged In:	10/23/23 0	9:17	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 1	7:00 (4 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Courie	<u>er</u>	
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucssi		Yes		<u>Comment</u>	ts/Resolution
Sample T	<u> [urn Around Time (TAT)</u>					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	, were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes			
	Container .					
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contai		Yes			
Field Lal	• • • • • • • • • • • • • • • • • • • •					
	field sample labels filled out with the minimum info	ormation:				
S	ample ID?		Yes			
	ate/Time Collected?		Yes			
	ollectors name?		Yes			
	Preservation	10				
	the COC or field labels indicate the samples were p	reserved?	No			
	ample(s) correctly preserved?	. 1.0	NA			
24. Is lab	filteration required and/or requested for dissolved r	netais?	No			
	se Sample Matrix					
	the sample have more than one phase, i.e., multipha		No			
27. If yes	, does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	act Laboratory					
28. Are sa	amples required to get sent to a subcontract laborate	ry?	No			
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA	Subcontract Lab: NA		
Client Ir	<u>istruction</u>					

Page 12 of 12

Date

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

## **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310205

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/27/23

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: 10/27/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #009

Workorder: E310205

Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

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## **Sample Summary**

_				
ſ	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
l	5315 Buena Vista Dr	Project Number:	01058-0007	Keporteu.
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 10:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH03 3'	E310205-01A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.



# Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:17:33AM

#### PH03 3' E310205-01

		E510205-01					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: F	RKS		Batch: 2343024
Renzene	ND	0.0250	1		10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1		10/23/23	10/25/23	
Toluene	ND	0.0250	1	Ĺ	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1		10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1		10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1		10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		112 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: F	RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	ļ	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		112 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: K	ΚM		Batch: 2343027
Diesel Range Organics (C10-C28)	25.2	25.0	1		10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1		10/23/23	10/25/23	
Surrogate: n-Nonane		85.3 %	50-200		10/23/23	10/25/23	
A L. EDA 200 0/005/ A	mg/kg	mg/kg	,	Analyst: F	RAS		Batch: 2343043
Anions by EPA 300.0/9056A	mg/kg	mg/kg					



## **QC Summary Data**

WPX Energy - Carlsbad Project Name: RDX 16 #009 Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 10/27/2023 10:17:33AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Carlsbad NM, 88220		Project Manage	r: Gi	ilbert Moreno				10/2	//2023 10:17:33A
	V	olatile Organ	ic Compo	unds by EI	PA 82601	В		A	nalyst: 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 (2343024-BLK1)							Prepared: 10	0/23/23 Analy	zed: 10/25/23
Benzene	ND	0.0250					1		
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	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			
LCS (2343024-BS1)							Prepared: 10	0/23/23 Analy	zed: 10/25/23
Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.69	0.0250	2.50		107	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.25	0.0500	5.00		105	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.488	0.0250	0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: 1,2-Dictioroeinane-u4 Surrogate: Toluene-d8	0.533		0.500		107	70-130			
Matrix Spike (2343024-MS1)				Source:	E310202-	02	Prepared: 10	)/23/23 Analy	vzed: 10/25/23
	2.45	0.0250	2.50	ND	98.2	48-131	Tropulsus 1	<i>5,25,25</i> 111141)	200. 10/20/20
Benzene	2.45	0.0250	2.50 2.50	ND ND	104	45-131			
Ethylbenzene	2.62	0.0250	2.50	ND ND	104	48-130			
Toluene	2.49	0.0250	2.50	ND ND	99.4	43-135			
o-Xylene	5.01	0.0250	5.00	ND ND	100	43-135			
p,m-Xylene Total Xylenes	7.50	0.0500 0.0250	7.50	ND ND	100	43-135			
Total Xylenes	0.487	0.0230	0.500	ND	97.4	70-130			
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4	0.487 0.499		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			
Matrix Spike Dup (2343024-MSD1)				Source:	E310202-	02	Prepared: 10	0/23/23 Analy	zed: 10/25/23
Benzene	2.33	0.0250	2.50	ND	93.3	48-131	5.10	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.4	45-135	5.38	27	
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	6.15	24	
o-Xylene	2.32	0.0250	2.50	ND	92.6	43-135	7.10	27	
p,m-Xylene	4.71	0.0500	5.00	ND	94.2	43-135	6.24	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.7	43-135	6.53	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
			0.500		100	50 120			



0.500

108

70-130

0.541

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

## **QC Summary Data**

WPX Energy - CarlsbadProject Name:RDX 16 #009Reported:5315 Buena Vista DrProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno10/27/2023 10:17:33AM

Carlsbad NM, 88220		Project Manager	r: Gi	ilbert Moreno				1	0/27/2023 10:17:33AM
	Non	halogenated	Organics l	by EPA 801	5D - Gl	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 (2343024-BLK1)							Prepared: 1	0/23/23 Ar	nalyzed: 10/25/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			
LCS (2343024-BS2)							Prepared: 1	0/23/23 Ar	nalyzed: 10/25/23
Gasoline Range Organics (C6-C10)	58.5	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.558		0.500		112	70-130			
Matrix Spike (2343024-MS2)				Source: I	E310202-0	02	Prepared: 1	0/23/23 Ar	nalyzed: 10/25/23
Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			
Matrix Spike Dup (2343024-MSD2)				Source: I	E310202-0	02	Prepared: 1	0/23/23 Ar	nalyzed: 10/25/23
Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130	1.03	20	

0.500

0.500

0.500

0.505

0.479

0.557

101

95.8

111

70-130

70-130

70-130



## **QC Summary Data**

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:17:33AM

Carisbad NM, 88220		Project Manage	r: Gi	ibert Moreno					10/2//2023 10:17:33A
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2343027-BLK1)							Prepared: 1	0/23/23	Analyzed: 10/24/23
tiesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	47.0		50.0		93.9	50-200			
.CS (2343027-BS1)							Prepared: 1	0/23/23	Analyzed: 10/24/23
riesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
urrogate: n-Nonane	47.7		50.0		95.3	50-200			
Matrix Spike (2343027-MS1)				Source:	E310204-0	06	Prepared: 1	0/23/23	Analyzed: 10/24/23
riesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
urrogate: n-Nonane	51.1		50.0		102	50-200			
Matrix Spike Dup (2343027-MSD1)				Source:	E310204-0	06	Prepared: 1	0/23/23	Analyzed: 10/24/23
tiesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
urrogate: n-Nonane	47.2		50.0		94.4	50-200			



Chloride

M2

## **QC Summary Data**

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number		DX 16 #009 1058-0007					Reported:	
Carlsbad NM, 88220		Project Manager		ilbert Moreno					10/27/2023 10:17:33	AM
		Anions	by EPA 3	300.0/9056 <i>A</i>	4				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 (2343043-BLK1)							Prepared:	10/24/23	Analyzed: 10/24/23	
Chloride	ND	20.0								
LCS (2343043-BS1)							Prepared:	10/24/23	Analyzed: 10/24/23	
Chloride	230	20.0	250		92.1	90-110				
Matrix Spike (2343043-MS1)				Source:	E310238-0	03	Prepared:	10/24/23	Analyzed: 10/24/23	
Chloride	743	200	250	542	80.4	80-120				
Matrix Spike Dup (2343043-MSD1)				Source:	E310238-	03	Prepared:	10/24/23	Analyzed: 10/24/23	

250

200

542

74.1

80-120

2.13

#### 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**

Γ	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
l	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 10:17

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

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Project In	formation	1					Chain of	f Cus	tody	,														Pa
Client: W	PX Energy	/ Permia	n, LLC.			Bill To				La	b U:	se Or	niv		_			T/	AT.		_	EPA	Prog	ram
	RDX 16 #0				Atte	ntion: Jim Raley		Lab	WO	4		dot	Num	ber		1D	2D	3D		nda	d	CWA		DWA
	lanager: C					ress: 5315 Buena Vista Dr.		E3	310	<u> 209</u>	5_	DIC	58	00	700				5 0	lay TA	T			
	13000 W					, State, Zip: Carlsbad, NM, 88:	220					Analy											R	CRA
	e, Zip_Od		79765		Pho	ne: 575-885-7502			_															
	32-541-77				Ema	il: jim.raley@dvn.com			8												==1	State		
Email: De	evon-tean	1@etech	env.com			21191055			₹ O											NM	col	UT A	Z T	4
Collected	d by: Edyte	e Konan				dent ID: nAPP2322658221, P2317840368			TPH GRO/DRO/ORO by 8015	021	92	010	300.0			N.		¥						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	<u> </u>		Lab Number	Depth(ft.)	PH GRO	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC		GDOC				Remari	ks	
10:00	10.19.23	S	1			PH03	1	3'								х								
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Addition	nal Instruc	tions:	<u></u>	1				l				<b>_</b>	<u></u>					LJ						
i, (field sam	pler), attest t	the validity	and auther	nticity of this s	emple. I am aware	that tampering with or intentionally mis-	labelling the samp	le loca	ation,				-	-							-	they are si		or
					ds for legal action.	Sampled by: GM	Date	===	Time													-		
75	ed by (Signa		lo	20123	10:45	Michelle Gonzales	10-20-	23		045		Rec	eived	l on i	ice:	Ý	N C	se Or	пy					
Mich	relle G	onzale	سنسك	-20-23	1700	Cuth Mar	-10.23.	<u>23</u>	8.	<u>'15</u>		11				<u>T2</u>				<u>T3</u>			-	
Relinquish	ed by: (Sign	ature)	Date	•	Time	Received by: (Signature)	Date		Time			AVG	3 Ten	np°C		<del>{</del>	·							
Sample Ma	trix: S - Soil, S	d - Solid, Se	Sludge, A	Agueous, O -	Other	-	Container	Type	B: R -	glass.	0 - 1	olv/c	olasti	c. 8g	- amt	er g	lass. v	v - VC	)A					



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Printed: 10/23/2023 12:47:38PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	10/23/23	08:15		Work Order ID:	E310205
Phone:	(539) 573-4018	Date Logged In:	10/23/23	09:16		Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:		17:00 (4 day TAT)		088-4-11-7	
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
2. Does th	ne number of samples per sampling site location man	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
	Il samples received within holding time?	•	Yes				
	Note: Analysis, such as pH which should be conducted in	•				Comment	s/Resolution
	i.e, 15 minute hold time, are not included in this disucssion	on.		1		Comment	S/Resolution
	urn Around Time (TAT)		37				
	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C			3.7				
	sample cooler received?		Yes				
• /	was cooler received in good condition?		Yes				
	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 the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling		Yes				
13. If no v	visible ice, record the temperature.  Actual sample	temperature: 4°0	<u>C</u>				
Sample C	Container						
	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
18. Are no	on-VOC samples collected in the correct containers'	?	Yes				
19. Is the a	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lab	<u>oel</u>						
20. Were	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	ate/Time Collected?		Yes	'			
	ollectors name?		Yes				
-	reservation the COC or field labels indicate the samples were pr	ragamiad9	No				
	imple(s) correctly preserved?	reserveu:	No NA				
	filteration required and/or requested for dissolved n	netals?	No				
	i i	icuis.	110				
	se Sample Matrix	9	2.7				
	the sample have more than one phase, i.e., multipha		No				
	does the COC specify which phase(s) is to be analy	yzeu?	NA				
	act Laboratory						
	imples required to get sent to a subcontract laborato	•	No				
29. Was a	subcontract laboratory specified by the client and in	f so who?	NA	Subcontract Lab	o: NA		
Client In	<u>istruction</u>						
							_

Date

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

## **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310215

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/27/23

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: 10/27/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #009

Workorder: E310215

Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

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## **Sample Summary**

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	Reported.
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 14:11

Client Sample ID	Lab Sample ID Mat	trix Sampled	Received	Container
PH03 4'	E310215-01A So	oil 10/19/23	10/23/23	Glass Jar, 2 oz.



# Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:11:18PM

#### PH03 4' E310215-01

		E010210 01					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Anaryte	Result	Limit	Dil	ution	Frepared	Anaryzeu	notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RKS		Batch: 2343025
Benzene	ND	0.0250		1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250		1	10/23/23	10/25/23	
Toluene	ND	0.0250		1	10/23/23	10/25/23	
o-Xylene	ND	0.0250		1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500		1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250		1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		99.5 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		99.1 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		99.5 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		99.1 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2343042
Diesel Range Organics (C10-C28)	ND	25.0		1	10/24/23	10/24/23	
Oil Range Organics (C28-C36)	ND	50.0		1	10/24/23	10/24/23	
Surrogate: n-Nonane		96.5 %	50-200		10/24/23	10/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: RAS		Batch: 2343072
Chloride	489	40.0		2	10/25/23	10/27/23	



## **QC Summary Data**

RDX 16 #009 Project Name: WPX Energy - Carlsbad Reported: Project Number: 01058-0007 5315 Buena Vista Dr Carlsbad NM, 88220 Project Manager: Gilbert Moreno 10/27/2023 2:11:18PM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Limit Spike Source Rec RPD Analyte RPD Result Level Result Rec Limits Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes

Blank (2343025-BLK1)							Prepared: 1	0/23/23	Analyzed: 10/25/23
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	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			
LCS (2343025-BS1)							Prepared:	0/23/23	Analyzed: 10/25/23
Benzene	2.19	0.0250	2.50		87.8	70-130			
Ethylbenzene	2.25	0.0250	2.50		90.2	70-130			
Toluene	2.16	0.0250	2.50		86.3	70-130			
o-Xylene	2.25	0.0250	2.50		90.1	70-130			
p,m-Xylene	4.40	0.0500	5.00		88.0	70-130			
Total Xylenes	6.65	0.0250	7.50		88.7	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			
Matrix Spike (2343025-MS1)				Source:	E310207-	)1	Prepared:	0/23/23	Analyzed: 10/25/23
Benzene	2.38	0.0250	2.50	ND	95.0	48-131			
Ethylbenzene	2.46	0.0250	2.50	ND	98.3	45-135			
Toluene	2.35	0.0250	2.50	ND	94.0	48-130			
o-Xylene	2.42	0.0250	2.50	ND	96.6	43-135			
p,m-Xylene	4.75	0.0500	5.00	ND	94.9	43-135			
Total Xylenes	7.16	0.0250	7.50	ND	95.5	43-135			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			
Matrix Spike Dup (2343025-MSD1)				Source:	E310207-	)1	Prepared:	0/23/23	Analyzed: 10/25/23
Benzene	2.30	0.0250	2.50	ND	91.9	48-131	3.36	23	
Benzene Ethylbenzene	2.30 2.41	0.0250 0.0250	2.50 2.50	ND ND	91.9 96.3	48-131 45-135	3.36 1.97	23 27	
Ethylbenzene	2.41	0.0250	2.50	ND	96.3	45-135	1.97	27	
Ethylbenzene Toluene	2.41 2.31	0.0250 0.0250	2.50 2.50	ND ND	96.3 92.5	45-135 48-130	1.97 1.63	27 24	
Ethylbenzene Toluene o-Xylene	2.41 2.31 2.40	0.0250 0.0250 0.0250	2.50 2.50 2.50	ND ND ND	96.3 92.5 96.0	45-135 48-130 43-135	1.97 1.63 0.644	27 24 27	
Ethylbenzene Toluene o-Xylene p,m-Xylene	2.41 2.31 2.40 4.70	0.0250 0.0250 0.0250 0.0500	2.50 2.50 2.50 5.00	ND ND ND ND	96.3 92.5 96.0 94.1	45-135 48-130 43-135 43-135	1.97 1.63 0.644 0.910	27 24 27 27	
Ethylbenzene Toluene o-Xylene p,m-Xylene Total Xylenes	2.41 2.31 2.40 4.70 7.10	0.0250 0.0250 0.0250 0.0500	2.50 2.50 2.50 5.00 7.50	ND ND ND ND	96.3 92.5 96.0 94.1 94.7	45-135 48-130 43-135 43-135 43-135	1.97 1.63 0.644 0.910	27 24 27 27	

Analyst: RKS

## **QC Summary Data**

RDX 16 #009 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 10/27/2023 2:11:18PM

Nonhalogenated	Organics	by EPA	8015D -	GRO
Tionnalogenateu	Organics	Dy Elli	0013D -	OILO

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

-	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2343025-BLK1)							Prepared: 1	0/23/23	Analyzed: 10/25/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			
LCS (2343025-BS2)							Prepared: 1	0/23/23	Analyzed: 10/25/23
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.3	70-130	·		·
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			
Matrix Spike (2343025-MS2)				Source:	E310207-	01	Prepared: 1	0/23/23	Analyzed: 10/25/23
Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			
Matrix Spike Dup (2343025-MSD2)				Source:	E310207-	01	Prepared: 1	0/23/23	Analyzed: 10/25/23
S 1: P S : (G( G10)		20.0	50.0	ND	103	70-130	3.35	20	
Gasoline Range Organics (C6-C10)	51.5	20.0	20.0						
	0.519	20.0	0.500		104	70-130			
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene  Surrogate: 1,2-Dichloroethane-d4		20.0				70-130 70-130			



## **QC Summary Data**

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:11:18PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				1	0/27/2023 2:11:18P
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2343042-BLK1)							Prepared: 1	0/24/23 An	alyzed: 10/24/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.2		50.0		96.3	50-200			
LCS (2343042-BS1)							Prepared: 1	0/24/23 An	alyzed: 10/24/23
Diesel Range Organics (C10-C28)	240	25.0	250		96.0	38-132			
Surrogate: n-Nonane	46.0		50.0		92.1	50-200			
Matrix Spike (2343042-MS1)				Source:	E310238-	02	Prepared: 1	0/24/23 An	alyzed: 10/24/23
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	49.1		50.0		98.3	50-200			
Matrix Spike Dup (2343042-MSD1)				Source:	E310238-	02	Prepared: 1	0/24/23 An	alyzed: 10/24/23
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132	6.50	20	
Surrogate: n-Nonane	52.1		50.0		104	50-200			

WPX Energy - Carlsbad		Project Name:		DX 16 #009					Reported:	
5315 Buena Vista Dr		Project Number:		.058-0007 ilbert Moreno					10/27/2023 2:11:1	ODM
Carlsbad NM, 88220		Project Manager:	: G	ilbert Moreno					10/2//2023 2:11:1	OPW
		Anions	by EPA 3	300.0/9056 <i>A</i>	4				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 (2343072-BLK1)							Prepared:	10/25/23	Analyzed: 10/26/2	3
Chloride	ND	20.0								
LCS (2343072-BS1)							Prepared:	10/25/23	Analyzed: 10/26/2	3
Chloride	247	20.0	250		98.9	90-110				
Matrix Spike (2343072-MS1)				Source:	E310202-	)1	Prepared:	10/25/23	Analyzed: 10/26/2	3
Chloride	364	20.0	250	96.3	107	80-120				
Matrix Spike Dup (2343072-MSD1)				Source:	E310202-	)1	Prepared:	10/25/23	Analyzed: 10/26/2	3
Chloride	368	20.0	250	96.3	109	80-120	0.938	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 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 14:11

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Client: W	PX Energ	y Permia	n, LLC.			BIII To	<del></del>	Lab Use Only					TAT			EPA F	rogram					
Project: F	RDX 16 #0	09			At	tention: Jim Raley		Lab	WO	Ħ		Job	Num	ber		10	2D			andard	CWA	SDWA
Project N	Aanager: (	Gilbert M	oreno			ldress: 5315 Buena Vista Dr.		ES	310	215	5	010	25°8	w	07					TAT ye		1
Address:					Cit	y, State, Zip: Carlsbad, NM, 8822	0					Analy				į						RCRA
City, Stat	e, Zip_Od	lessa,TX,	79765		Ph	one: 575-885-7502																
Phone: 8					En	nail: jim.raley@dvn.com			8015		ĺ										State	
Email: De	evon-tean	n@etech	env.co	m	w	O: 21191055			3			1								NM CO	UT AZ	YX
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Sampled	Sampled	Matrix	Corceine	, Sample I	D		Number	Depth(ft.)	Ĕ	STEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			верос		ğ			Remark	S
10:10	10.19.23	S	1			PH03	1	4'								X						
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Addition	al Instruc	tions:																,				
					sample. I am awa	re that tempering with or intentionally mislab in. Sampled by: GM	dling the samp	le loca	tion,												y they are sar	
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												AVG				•						
Sample Mat	rix: S - Soll, Se			- Aqueous, O -		ther arrangements are made. Hazardou	Container	Type	: g -	glass,	p - p	oly/p	plastic	. ag -	amb	er g	ass.	v - VC	Α			



envirotech

Printed: 10/23/2023 12:38:26PM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	10/23/23 0	08:15	Work Order ID:	E310215
Phone:	(539) 573-4018	Date Logged In:	10/23/23 1	2:36	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 1	7:00 (4 day TAT)		
Chain of	Custody (COC)					
	e sample ID match the COC?		Yes			
	ne number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Couries	<u>r</u>	
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes			
5. Were al	Il samples received within holding time?  Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi	•	Yes		<u>Comment</u>	s/Resolution
Sample T	<u>urn Around Time (TAT)</u>					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C.  Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample C			=			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab	el					
20. Were	— field sample labels filled out with the minimum info	ormation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes			
	ollectors name?		Yes			
	reservation		N			
	the COC or field labels indicate the samples were p	reserved?	No			
	ample(s) correctly preserved? filteration required and/or requested for dissolved n	notala?	NA N-			
	•	iletais?	No			
	se Sample Matrix					
	the sample have more than one phase, i.e., multipha		No			
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	act Laboratory					
	imples required to get sent to a subcontract laborato	-	No			
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA	Subcontract Lab: NA		
Client In	astruction_					

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

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310204

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/27/23

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: 10/27/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #009

Workorder: E310204

Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

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## Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Donoutoda
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 10:15

Client Sample ID	Lab Sample ID M	[atrix	Sampled	Received	Container
PH04 0.5'	E310204-01A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH04 4'	E310204-02A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH05 0.5'	E310204-03A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH05 4'	E310204-04A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH06 0.5'	E310204-05A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH06 4'	E310204-06A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.



WPX	Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 E	Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsb	ad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:15:36AM

## PH04 0.5' E310204-01

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	-	Analyst:	RKS		Batch: 2343024
Benzene	ND	0.0250	1		10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1		10/23/23	10/25/23	
Toluene	ND	0.0250	1	l	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1		10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1		10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1		10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		108 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst:	RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		108 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	-	Analyst:	KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1		10/23/23	10/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1		10/23/23	10/24/23	
Surrogate: n-Nonane		87.6 %	50-200		10/23/23	10/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2343043
Chloride	25200	1000	50	0	10/24/23	10/24/23	



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:15:36AM

## PH04 4' E310204-02

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst:	RKS		Batch: 2343024
Benzene	ND	0.0250	1		10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1		10/23/23	10/25/23	
Toluene	ND	0.0250	1		10/23/23	10/25/23	
o-Xylene	ND	0.0250	1		10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1		10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1		10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		99.0 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst:	RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1		10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		99.0 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst:	KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1		10/23/23	10/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1		10/23/23	10/24/23	
Surrogate: n-Nonane		87.3 %	50-200		10/23/23	10/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst:	RAS		Batch: 2343043
Chloride	1620	40.0	2	!	10/24/23	10/24/23	

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:15:36AM

## PH05 0.5' E310204-03

		Reporting					
Analyte	Result	Limit	Dilut	ion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS			Batch: 2343024
Benzene	ND	0.0250	1		10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1		10/23/23	10/25/23	
Toluene	ND	0.0250	1		10/23/23	10/25/23	
o-Xylene	ND	0.0250	1		10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1		10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1		10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		98.7 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		112 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1		10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		98.7 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		112 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst:	KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1		10/23/23	10/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1		10/23/23	10/24/23	
Surrogate: n-Nonane		86.9 %	50-200		10/23/23	10/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst:	RAS		Batch: 2343043
Chloride	17700	1000	50	)	10/24/23	10/24/23	

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:15:36AM

## PH05 4' E310204-04

		E310204-04					
Anglista	Result	Reporting Limit		ıtion	Prepared	Analyzed	Notes
Analyte	Result	Limit	Dill	liion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2343024
Benzene	ND	0.0250		1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	į	1	10/23/23	10/25/23	
Toluene	ND	0.0250	į	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	į	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	į	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250		1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		100 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:		Batch: 2343024	
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		100 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0		1	10/23/23	10/24/23	
Oil Range Organics (C28-C36)	ND	50.0	İ	1	10/23/23	10/24/23	
Surrogate: n-Nonane		88.4 %	50-200		10/23/23	10/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: RAS		Batch: 2343043
Chloride	155	20.0		1	10/24/23	10/24/23	<u> </u>



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:15:36AM

## PH06 0.5' E310204-05

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		RKS		Batch: 2343024
Benzene	ND	0.0250	1		10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1		10/23/23	10/25/23	
Toluene	ND	0.0250	1		10/23/23	10/25/23	
o-Xylene	ND	0.0250	1		10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1		10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1		10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst:	RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1		10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst:	KM		Batch: 2343027
Diesel Range Organics (C10-C28)	32.0	25.0	1		10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1		10/23/23	10/25/23	
Surrogate: n-Nonane		81.8 %	50-200		10/23/23	10/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst:	RAS		Batch: 2343043
Chloride	11600	400	20	`	10/24/23	10/24/23	



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:15:36AM

## PH06 4' E310204-06

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		109 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		109 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	_
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		85.8 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2343043
Chloride	98.9	20.0	1	10/24/23	10/24/23	

WPX Energy - Carlsbad Project Name: RDX 16 #009 Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 10/27/2023 10:15:36AM

Carlsbad NM, 88220		Project Manage	r: Gi	ilbert Moreno				10/2	27/2023 10:15:36A		
	V	olatile Organ	ic Compo	unds by EF	PA 82601	В		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 (2343024-BLK1)							Prepared: 1	0/23/23 Anal	yzed: 10/25/23		
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	0.496		0.500		99.2	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130					
Surrogate: Toluene-d8	0.561		0.500		112	70-130					
LCS (2343024-BS1)							Prepared: 1	0/23/23 Anal	yzed: 10/25/23		
Benzene	2.55	0.0250	2.50		102	70-130					
Ethylbenzene	2.64	0.0250	2.50		106	70-130					
Toluene	2.69	0.0250	2.50		107	70-130					
o-Xylene	2.60	0.0250	2.50		104	70-130					
o,m-Xylene	5.25	0.0500	5.00		105	70-130					
Total Xylenes	7.85	0.0250	7.50		105	70-130					
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130					
Surrogate: Toluene-d8	0.533		0.500		107	70-130					
Matrix Spike (2343024-MS1)				Source:	E310202-	02	Prepared: 10	0/23/23 Anal	yzed: 10/25/23		
Benzene	2.45	0.0250	2.50	ND	98.2	48-131					
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135					
Toluene	2.62	0.0250	2.50	ND	105	48-130					
o-Xylene	2.49	0.0250	2.50	ND	99.4	43-135					
p,m-Xylene	5.01	0.0500	5.00	ND	100	43-135					
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135					
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130					
Surrogate: Toluene-d8	0.541		0.500		108	70-130					
Matrix Spike Dup (2343024-MSD1)				Source:	E310202-	02	Prepared: 1	0/23/23 Anal	yzed: 10/25/23		
Benzene	2.33	0.0250	2.50	ND	93.3	48-131	5.10	23			
Ethylbenzene	2.46	0.0250	2.50	ND	98.4	45-135	5.38	27			
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	6.15	24			
o-Xylene	2.32	0.0250	2.50	ND	92.6	43-135	7.10	27			
p,m-Xylene	4.71	0.0500	5.00	ND	94.2	43-135	6.24	27			
Total Xylenes	7.03	0.0250	7.50	ND	93.7	43-135	6.53	27			
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130					
			0.500		100	50 120					

0.500

108

70-130

0.541

Surrogate: Toluene-d8

RDX 16 #009 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Project Manager: Carlsbad NM, 88220 Gilbert Moreno 10/27/2023 10:15:36AM

	Non	halogenated (	Organics l	by EPA 80	15D - G	RO			Analyst: RKS
e	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	ma/ka	ma/ka	ma/ka	ma/ka	0/	0/	0/	0/	Notes

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2343024-BLK1)							Prepared: 1	0/23/23 Ana	lyzed: 10/25/23		
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130					
Surrogate: Toluene-d8	0.561		0.500		112	70-130					
LCS (2343024-BS2)							Prepared: 1	0/23/23 Anal	lyzed: 10/25/23		
Gasoline Range Organics (C6-C10)	58.5	20.0	50.0		117	70-130					
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130					
Surrogate: Toluene-d8	0.558		0.500		112	70-130					
Matrix Spike (2343024-MS2)				Source:	Source: E310202-02			Prepared: 10/23/23 Analyzed: 10/25/			
Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130					
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130					
Surrogate: Toluene-d8	0.552		0.500		110	70-130					
Matrix Spike Dup (2343024-MSD2)				Source:	E310202-	02	Prepared: 1	0/23/23 Anal	lyzed: 10/25/23		
Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130	1.03	20			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130					
Surrogate: Toluene-d8	0.557		0.500		111	70-130					



WPX Energy - CarlsbadProject Name:RDX 16 #009Reported:5315 Buena Vista DrProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno10/27/2023 10:15:36AM

Carisbad Nivi, 88220		Project Manage	r. Gi	ibert Moreno					10/2//2023 10.13.30A
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2343027-BLK1)							Prepared: 1	0/23/23 A	nalyzed: 10/24/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			
LCS (2343027-BS1)							Prepared: 1	0/23/23 A	nalyzed: 10/24/23
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			
Matrix Spike (2343027-MS1)				Source:	E310204-	06	Prepared: 1	0/23/23 A	nalyzed: 10/24/23
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			
Matrix Spike Dup (2343027-MSD1)				Source:	E310204-	06	Prepared: 1	0/23/23 A	nalyzed: 10/24/23
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
Surrogate: n-Nonane	47.2		50.0		94.4	50-200			

## **QC Summary Data**

WPX Energy - Carlsbad		Project Name:		DX 16 #009					Re	ported:
5315 Buena Vista Dr		Project Number:	01	1058-0007						
Carlsbad NM, 88220		Project Manager:	: G	ilbert Moreno					10/27/202	3 10:15:36AM
		Anions	by EPA 3	300.0/9056	4				Analys	st: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%		Notes
Blank (2343043-BLK1)							Prepared:	10/24/23	Analyzed:	10/24/23
Chloride	ND	20.0								
LCS (2343043-BS1)							Prepared:	10/24/23	Analyzed:	10/24/23
Chloride	230	20.0	250		92.1	90-110				
Matrix Spike (2343043-MS1)				Source:	E310238-	03	Prepared:	10/24/23	Analyzed:	10/24/23
Chloride	743	200	250	542	80.4	80-120				
Matrix Spike Dup (2343043-MSD1)				Source:	E310238-	03	Prepared:	10/24/23	Analyzed:	10/24/23
Chloride	728	200	250	542	74.1	80-120	2.13	20		M2

#### QC Summary Report Comment:

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



## **Definitions and Notes**

	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
-	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 10:15

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

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



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Project:	RDX 16 #0	09	,		Atte	ntion: Jim Raley	<del></del>	lah	WO		_		Num	her	-	1D	2D	3D	Stan	dard	CWA	SDWA
	Aanager: (		oreno			ress: 5315 Buena Vista Dr.		F	<b>≾i</b> o	Żœ	4	010	58	$\dot{\alpha}$			<del></del>		5 day			
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Collecte	d by: Edyt	e Konan			Incid	dent ID: nAPP2322658221, P2317840368		_	TPH GRO/DRO/ORO by 8015	8021	9360	010	300.0			Z.		ዾ				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	)		Lab Number	Depth(ft.)	TPH GR	STEX by 8023	0928 AQ DOA	Metals 6010	Chloride 300.0			86000		Spoc			Remarks	
10:20	10.19.23	S	1			PH04	1	0.5'								x						
10:30	10.19.23	s	1			PH04	2	4'								x						
10:40	10.19.23	S	1			PHOS	3	0.5'								x						
10:50	10.19.23	S	1			PH05	4	4'								x						
11:00	10.19.23	S	1			PH06	5	0.5'								x						
11:10	10.19.23	s	1			PH06	9	41								x						
						10/20/2023																
Addition	nal Instru	ctions:																				
I, (field sampler), attest to the validity and authenticity of this sampl date or time of collection is considered fraud and may be grounds fo						that tampering with or intentionally mislab Sempled by: GM	elling the samp	sle loca	ition,		<del></del>			-							they are sam sequent days.	
Relinquish	ed by: (Sign	sture)	Date 10	120123	W UC	Received by: (Signature) Michelle Gonzales	Date 10-20-	23		104		Rec	eive	on ic	:e:	•	b Us	se On	ly			
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envirotech

Printed: 10/23/2023 12:45:33PM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	10/23/23	08:15		Work Order ID:	E310204
Phone:	(539) 573-4018	Date Logged In:	10/23/23	09:14		Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23	17:00 (4 day TAT)			
	5 (50 S)						
	Custody (COC)						
	ne sample ID match the COC?	at the COC	Yes				
	ne number of samples per sampling site location man	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	Courier		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes			<u>Comment</u>	s/Resolution
	urn Around Time (TAT)						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C			**				
	sample cooler received?		Yes				
•	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling	e received w/i 15	Yes				
	visible ice, record the temperature. Actual sample	temperature: 4 t	<u> </u>				
Sample C			N.T.				
	queous VOC samples present?		No NA				
	OC samples collected in VOA Vials?		NA NA				
	head space less than 6-8 mm (pea sized or less)?						
	trip blank (TB) included for VOC analyses?	a.	NA				
	on-VOC samples collected in the correct containers'		Yes				
	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lab							
	field sample labels filled out with the minimum info ample ID?	ormation:	Yes				
	ate/Time Collected?		Yes				
	ollectors name?		Yes				
Sample P	reservation_						
21. Does t	the COC or field labels indicate the samples were pr	reserved?	No				
22. Are sa	imple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
	the sample have more than one phase, i.e., multipha	se?	No				
	does the COC specify which phase(s) is to be analy		NA				
		, 2001	11/21				
	act Laboratory		3.7				
	amples required to get sent to a subcontract laborato	•	No				
29. was a	subcontract laboratory specified by the client and in	r so wno?	NA	Subcontract Lab	): NA		
Client In	<u>istruction</u>						

Date

Report to:
Gilbert Moreno





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310208

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/27/23

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: 10/27/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #009

Workorder: E310208

Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## Sample Summary

Γ	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Donoutoda
ı	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 14:07

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
PH07 0.5'	E310208-01A Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH07 4'	E310208-02A Soil	10/19/23	10/23/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:07:32PM

## PH07 0.5' E310208-01

		E310200-01					
	D. I	Reporting	Р.,	<i>.</i> ·	D 1		N
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2343024
Benzene	ND	0.0250	1	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		98.8 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		98.8 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	10/23/23	10/25/23	
Surrogate: n-Nonane		88.2 %	50-200		10/23/23	10/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2343072
Chloride	55.4	20.0	1	1	10/25/23	10/26/23	



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:07:32PM

## PH07 4' E310208-02

D 1	Reporting					N.
Kesult	Limit	Dil	ution	Prepared	Analyzed	Notes
mg/kg	mg/kg		Analyst:	RKS		Batch: 2343024
ND	0.0250		1	10/23/23	10/25/23	
ND	0.0250		1	10/23/23	10/25/23	
ND	0.0250		1	10/23/23	10/25/23	
ND	0.0250		1	10/23/23	10/25/23	
ND	0.0500		1	10/23/23	10/25/23	
ND	0.0250		1	10/23/23	10/25/23	
	102 %	70-130		10/23/23	10/25/23	
	98.7 %	70-130		10/23/23	10/25/23	
	110 %	70-130		10/23/23	10/25/23	
mg/kg	mg/kg		Analyst:	RKS		Batch: 2343024
ND	20.0		1	10/23/23	10/25/23	
	102 %	70-130		10/23/23	10/25/23	
	98.7 %	70-130		10/23/23	10/25/23	
	110 %	70-130		10/23/23	10/25/23	
mg/kg	mg/kg		Analyst	KM		Batch: 2343027
ND	25.0		1	10/23/23	10/25/23	
ND	50.0		1	10/23/23	10/25/23	
	90.9 %	50-200		10/23/23	10/25/23	
mg/kg	mg/kg		Analyst	RAS		Batch: 2343072
28.5	20.0		1	10/25/23	10/27/23	
	ND ND ND ND ND ND ND ND ND ND ND ND Mg/kg ND Mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ID         0.0250           ID         98.7 %           II0 %         110 %           mg/kg         mg/kg           ND         20.0           IO2 %         98.7 %           II0 %         110 %           mg/kg         mg/kg           ND         25.0           ND         50.0           90.9 %         mg/kg           mg/kg         mg/kg	Result         Limit         Dil           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           ID         70-130           98.7 %         70-130           II0 %         70-130           mg/kg         mg/kg           ND         20.0           II0 %         70-130           II0 %         70-130           mg/kg         mg/kg           ND         25.0           ND         50.0           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Analyst:           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           ND         70-130         1           98.7 %         70-130         1           Mg/kg         mg/kg         Analyst:           ND         20.0         1           102 %         70-130         1           98.7 %         70-130         1           mg/kg         mg/kg         Analyst:           ND         25.0         1           ND         50.0         1           90.9 %         50-200           mg/kg         Mg/kg         Analyst:	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/23/23           ND         0.0250         1         10/23/23           ND         0.0250         1         10/23/23           ND         0.0500         1         10/23/23           ND         0.0250         1         10/23/23           ND         0.0250         1         10/23/23           98.7 %         70-130         10/23/23           98.7 %         70-130         10/23/23           110 %         70-130         10/23/23           98.7 %         70-130         10/23/23           98.7 %         70-130         10/23/23           110 %         70-130         10/23/23           110 %         70-130         10/23/23           110 %         70-130         10/23/23           110 %         70-130         10/23/23           110 %         70-130         10/23/23           110 %         70-130         10/23/23           110 %         70-130         10/23/23           110 %         70-130         10/23/2	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/23/23         10/25/23           ND         0.0500         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           98.7 %         70-130         10/23/23         10/25/23           110 %         70-130         10/23/23         10/25/23           Mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         10/23/23         10/25/23           110 %         70-130         10/23/23         10/25/23           mg/kg         mg/kg         Analyst: RM           ND         25.0



WPX Energy - Carlsbad Project Name: RDX 16 #009 Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 10/27/2023 2:07:32PM

Carisbad 1414, 00220		1 Toject Manage									
Volatile Organic Compounds by EPA 8260B											
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2343024-BLK1)							Prepared: 1	0/23/23 Aı	nalyzed: 10/25/23		
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	0.496		0.500		99.2	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130					
Surrogate: Toluene-d8	0.561		0.500		112	70-130					
LCS (2343024-BS1)							Prepared: 1	0/23/23 A	nalyzed: 10/25/23		
Benzene	2.55	0.0250	2.50		102	70-130					
Ethylbenzene	2.64	0.0250	2.50		106	70-130					
Toluene	2.69	0.0250	2.50		107	70-130					
o-Xylene	2.60	0.0250	2.50		104	70-130					
p,m-Xylene	5.25	0.0500	5.00		105	70-130					
Total Xylenes	7.85	0.0250	7.50		105	70-130					
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130					
Surrogate: Toluene-d8	0.533		0.500		107	70-130					
Matrix Spike (2343024-MS1)				Source:	E310202-	02	Prepared: 1	0/23/23 A	nalyzed: 10/25/23		
Benzene	2.45	0.0250	2.50	ND	98.2	48-131					
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135					
Toluene	2.62	0.0250	2.50	ND	105	48-130					
o-Xylene	2.49	0.0250	2.50	ND	99.4	43-135					
p,m-Xylene	5.01	0.0500	5.00	ND	100	43-135					
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135					
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130					
Surrogate: Toluene-d8	0.541		0.500		108	70-130					
Matrix Spike Dup (2343024-MSD1)				Source:	E310202-	02	Prepared: 1		nalyzed: 10/25/23		
Benzene	2.33	0.0250	2.50	ND	93.3	48-131	5.10	23			
Ethylbenzene	2.46	0.0250	2.50	ND	98.4	45-135	5.38	27			
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	6.15	24			
o-Xylene	2.32	0.0250	2.50	ND	92.6	43-135	7.10	27			
p,m-Xylene	4.71	0.0500	5.00	ND	94.2	43-135	6.24	27			
Total Xylenes	7.03	0.0250	7.50 0.500	ND	93.7	43-135 70-130	6.53	27			
Surrogate: Bromofluorobenzene	0.486					70-130 70-130					
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	/0-130					

0.500

108

70-130

0.541

Surrogate: Toluene-d8

Surrogate: Toluene-d8

## **QC Summary Data**

WPX Energy - CarlsbadProject Name:RDX 16 #009Reported:5315 Buena Vista DrProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno10/27/20232:07:32PM

	Non	halogenated	Organics l	by EPA 80	15D - G	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 (2343024-BLK1)							Prepared: 1	0/23/23 Anal	yzed: 10/25/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			

LCS (2343024-BS2)	Prepared: 10/23/23 Analyzed: 10/25/23				
Gasoline Range Organics (C6-C10)	58.5	20.0	50.0	117	70-130
Surrogate: Bromofluorobenzene	0.511		0.500	102	70-130
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500	95.3	70-130
Surrogate: Toluene-d8	0.558		0.500	112	70-130

0.500

0.561

112

70-130

Matrix Spike (2343024-MS2)		Source:	E310202-	02	Prepared: 10/23/23 Analyzed: 10/25/23			
Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130		
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130		
Surrogate: Toluene-d8	0.552		0.500		110	70-130		

Matrix Spike Dup (2343024-MSD2)			Source:	E310202-	02	Prepared: 10/23/23 Analyzed: 10/25/2				
Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130	1.03	20		
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130				
Surrogate: Toluene-d8	0.557		0.500		111	70-130				

WPX Energy - Carlsbad	Project Name: RDX 10	16 #009 Reported:	7
5315 Buena Vista Dr	Project Number: 01058-0	3-0007	ı
Carlsbad NM, 88220	Project Manager: Gilbert	rt Moreno 10/27/2023 2:07:32PM	

Carlsbad NM, 88220		Project Manage	r: Gı	lbert Moreno					10/27/2023 2:07:32P
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2343027-BLK1)							Prepared: 1	0/23/23 A	analyzed: 10/24/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	47.0		50.0		93.9	50-200			
LCS (2343027-BS1)							Prepared: 1	0/23/23 A	analyzed: 10/24/23
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
urrogate: n-Nonane	47.7		50.0		95.3	50-200			
Matrix Spike (2343027-MS1)				Source:	E310204-	06	Prepared: 1	0/23/23 A	analyzed: 10/24/23
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
urrogate: n-Nonane	51.1		50.0		102	50-200			
Matrix Spike Dup (2343027-MSD1)				Source:	E310204-	06	Prepared: 1	0/23/23 A	analyzed: 10/24/23
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
'urrogate: n-Nonane	47.2		50.0		94.4	50-200			

WPX Energy - Carlsbad		Project Name:		DX 16 #009					Reported:	
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:		1058-0007 ilbert Moreno					10/27/2023 2:07:32PM	
		Anions	by EPA 3	300.0/9056	4				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 (2343072-BLK1)							Prepared: 1	0/25/23	Analyzed: 10/26/23	3
Chloride	ND	20.0								
LCS (2343072-BS1)							Prepared: 1	0/25/23	Analyzed: 10/26/23	3
Chloride	247	20.0	250		98.9	90-110				
Matrix Spike (2343072-MS1)				Source:	E310202-0	)1	Prepared: 1	0/25/23	Analyzed: 10/26/23	3
Chloride	364	20.0	250	96.3	107	80-120				
Matrix Spike Dup (2343072-MSD1)				Source:	E310202-0	)1	Prepared: 1	0/25/23	Analyzed: 10/26/23	3
Chloride	368	20.0	250	96.3	109	80-120	0.938	20		

#### QC Summary Report Comment:

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



## **Definitions and Notes**

ſ	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
١	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 14:07

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Client: W	PX Energ	y Permia	n, LLC.			Bill To		Γ		L	ab U	se Or	ily		_			T	AT		EPA P	rogram
Project: F	RDX 16 #0	09				ttention: Jim Raley		Lab	Lab WO# E <b>3102.0</b> %			Job		ber		1D	2D	D 3D S		andard	CWA	SDWA
Project N	lanager:	Gilbert M	oreno	<del></del>		ddress: 5315 Buena Vista Dr.		FS	3102	09	K	00	58	000	7					Jay TAT		
Address:	13000 W	County F	₹d 100			ity, State, Zip: Carlsbad, NM, 882	20		· · · ·					nd Me	_	,	·······					RCRA
City, Stat	e, Zip_Oc	lessa,TX,	79765			hone: 575-885-7502					Г	Πİ										
Phone: 8	32-541-7	719				mail: jim.raley@dvn.com		1	55												State	
Email: De	von-tear	n@etech	env.com	)		VO: 21191055		1	3											NM CO	UT AZ	TX
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	by: Edyt	e Konan						7	8	, 8021	826	ğ	8	1	-			×		×		<u> </u>
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample II	<b>D</b>		Lab Number	Depth(ft.)	TPH GRO/DRO/ORO <b>by</b> 8015	BTEX by	VOC by 8260	Metals 6010	Chloride 300.0			верос		2000			Remarks	
11:20	10.19.23	s	1			PH07		0.5'								x						
11:30	10.19.23	s	1			PH07	2	4'							İ	x		_				
						_								7	7							
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Addition	al Instruc	tions:		.1				<b>.</b>			L	LI	i							<del></del>		
•	•-	•		-	ample. I am aw	are that tampering with or intentionally mislation. Sampled by: GM	elling the samp	le loca	tion,											on ice the day on 6 °C on sub	they are samp sequent days.	oled or
Relinquished by: (Signature)  10/28/23  Received by: (Signature)  Michelle Gonzales								23	Time	104	45	Rece	ived	on ic	e:	_	b Us	e On	ly			
	(investment law (Signature) (Date Time Restrict for (Signature)							23	Time 8	:15		T1				•			T3			
Relinquished by: (Signature)  Date Time Received by: (Signature)							Date		Time			AVG	Tem	p°C_	_ 4	f				<del>- I</del>		
Sample Mat	rbc; S - Soft, Se	- Solid, Se -	Słudge, A -	Aqueous, O ·	Other	_	Container	Туре	: g - R	lass,					amb	er gi	ass, v	- VO	A			
						other arrangements are made. Hazardou														t for the an	alysis of the	above
						with this COC. The liability of the laborat												_			•	



envirotech

Printed: 10/23/2023 1:00:26PM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	10/23/23	08:15		Work Order ID:	E310208
Phone:	(539) 573-4018	Date Logged In:	10/23/23	09:20		Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	he sample ID match the COC?		Yes				
	he number of samples per sampling site location mate	ch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	carrer. <u>c</u>	<u>Journer</u>		
	all samples received within holding time?	•	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio					Comment	s/Resolution
Sample 7	<u> Furn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (							
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes				
	•	emperature. 4	<u>C</u>				
	<u>Container</u> queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field La		ers conected:	105				
•	field sample labels filled out with the minimum infor	mation:					
	ample ID?	mation.	Yes				
	Date/Time Collected?		Yes				
C	Collectors name?		Yes				
Sample 1	Preservation_						
21. Does	the COC or field labels indicate the samples were pro-	eserved?	No				
22. Are s	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	ase Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	e?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subconti	ract Laboratory						
	amples required to get sent to a subcontract laborator	v?	No				
	a subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	· NA		
				Succentract Luc	,. 141 <b>1</b>		
Chefit II	<u>nstruction</u>						

Date

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310207

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/27/23

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: 10/27/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #009

Workorder: E310207

Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Donoutoda
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 14:05

Client Sample ID	Lab Sample ID M	Matrix	Sampled	Received	Container
PH08 0.5'	E310207-01A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH08 1'	E310207-02A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH09 0.5'	E310207-03A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH09 1'	E310207-04A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH10 0.5'	E310207-05A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH10 1'	E310207-06A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:05:24PM

#### PH08 0.5' E310207-01

D14	Reporting		D 1	A malama 1	Nister
Result	Limit	Dilut	ion Prepared	Analyzed	Notes
mg/kg	mg/kg	A	Analyst: RKS		Batch: 2343025
ND	0.0250	1	10/23/23	10/25/23	
ND	0.0250	1	10/23/23	10/25/23	
ND	0.0250	1	10/23/23	10/25/23	
ND	0.0250	1	10/23/23	10/25/23	
ND	0.0500	1	10/23/23	10/25/23	
ND	0.0250	1	10/23/23	10/25/23	
	102 %	70-130	10/23/23	10/25/23	
	101 %	70-130	10/23/23	10/25/23	
	99.8 %	70-130	10/23/23	10/25/23	
mg/kg	mg/kg	А	Analyst: RKS		Batch: 2343025
ND	20.0	1	10/23/23	10/25/23	
	102 %	70-130	10/23/23	10/25/23	
	101 %	70-130	10/23/23	10/25/23	
	99.8 %	70-130	10/23/23	10/25/23	
mg/kg	mg/kg	Α	Analyst: KM		Batch: 2343027
ND	25.0	1	10/23/23	10/25/23	
ND	50.0	1	10/23/23	10/25/23	
	87.9 %	50-200	10/23/23	10/25/23	
mg/kg	mg/kg	Α	Analyst: RAS		Batch: 2343072
259	20.0	1	10/25/23	10/26/23	
	ND ND ND ND ND ND ND ND ND Mg/kg ND Mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           ND         0.0250           MD         20.0250           MB/kg         mg/kg           MB/kg         mg/kg           MB/kg         mg/kg           ND         20.0           MB/kg         mg/kg           ND         25.0           ND         50.0           87.9 %         mg/kg           mg/kg         mg/kg	Result         Limit         Dilut           mg/kg         mg/kg         A           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         70-130         101%           99.8 %         70-130         70-130           mg/kg         mg/kg         A           ND         20.0         1           102 %         70-130         1           99.8 %         70-130         70-130           mg/kg         mg/kg         A           ND         25.0         1           ND         50.0         1           87.9 %         50-200           mg/kg         mg/kg         A	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/23/23           ND         0.0250         1         10/23/23           ND         0.0250         1         10/23/23           ND         0.0500         1         10/23/23           ND         0.0250         1         10/23/23           ND         0.0250         1         10/23/23           102 %         70-130         10/23/23           101 %         70-130         10/23/23           99.8 %         70-130         10/23/23           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           99.8 %         70-130         10/23/23           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         10/23/23           ND         50.0         1         10/23/23           87.9 %         50-200         10/23/23           mg/kg <td>Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0500         1         10/23/23         10/25/23           ND         0.0500         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           101%         70-130         10/23/23         10/25/23           101%         70-130         10/23/23         10/25/23           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         10/23/23         10/25/23           101%         70-130         10/23/23         10/25/23           101%         70-130         10/23/23         10/25/23           mg/kg</td>	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0500         1         10/23/23         10/25/23           ND         0.0500         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           101%         70-130         10/23/23         10/25/23           101%         70-130         10/23/23         10/25/23           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         10/23/23         10/25/23           101%         70-130         10/23/23         10/25/23           101%         70-130         10/23/23         10/25/23           mg/kg



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:05:24PM

#### PH08 1' E310207-02

		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2343025
Benzene	ND	0.0250	1	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		104 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		100 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		104 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		100 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	10/23/23	10/25/23	
Surrogate: n-Nonane		92.7 %	50-200		10/23/23	10/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2343072
Chloride	111	20.0	1	1	10/25/23	10/26/23	



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:05:24PM

#### PH09 0.5' E310207-03

		201020, 00				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		nalyst: RKS		Batch: 2343025
Benzene	ND	0.0250	1	10/23/23	10/25/23	Butch. 23 13 023
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		104 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		99.7 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		104 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		99.7 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		85.4 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: RAS		Batch: 2343072
Chloride	159	20.0	1	10/25/23	10/26/23	

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:05:24PM

#### PH09 1' E310207-04

		2010207 01					
Analyte	Result	Reporting Limit		lution	Prepared	Analyzed	Notes
	mg/kg	mg/kg		Analyst:		1 mary 2ea	Batch: 2343025
Volatile Organic Compounds by EPA 8260B Benzene	ND	0.0250		1	10/23/23	10/25/23	Batch: 25-13023
Ethylbenzene	ND	0.0250		1	10/23/23	10/25/23	
Toluene	ND	0.0250		1	10/23/23	10/25/23	
o-Xylene	ND	0.0250		1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500		1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250		1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		100 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		100 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0		1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0		1	10/23/23	10/25/23	
Surrogate: n-Nonane		96.4 %	50-200		10/23/23	10/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2343072
Chloride	24.7	20.0		1	10/25/23	10/26/23	



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:05:24PM

#### PH10 0.5' E310207-05

	E010207 00				
Result	Reporting Limit		on Prepared	Analyzed	Notes
mø/kø	mo/ko	A	*		Batch: 2343025
		1		10/25/23	Butch. 23 13 023
		1			
		1	10/23/23	10/25/23	
		1	10/23/23	10/25/23	
		1	10/23/23	10/25/23	
ND	0.0250	1	10/23/23	10/25/23	
	102 %	70-130	10/23/23	10/25/23	
	96.4 %	70-130	10/23/23	10/25/23	
	101 %	70-130	10/23/23	10/25/23	
mg/kg	mg/kg	A	nalyst: RKS		Batch: 2343025
ND	20.0	1	10/23/23	10/25/23	
	102 %	70-130	10/23/23	10/25/23	
	96.4 %	70-130	10/23/23	10/25/23	
	101 %	70-130	10/23/23	10/25/23	
mg/kg	mg/kg	A	nalyst: KM		Batch: 2343027
ND	25.0	1	10/23/23	10/25/23	
ND	50.0	1	10/23/23	10/25/23	
	91.3 %	50-200	10/23/23	10/25/23	
mg/kg	mg/kg	A	nalyst: RAS		Batch: 2343072
	mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           IO2 %         96.4 %           101 %         mg/kg           ND         20.0           IO2 %         96.4 %           101 %         101 %           mg/kg         mg/kg           ND         25.0           ND         50.0	mg/kg         mg/kg         A           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           102 %         70-130         70-130           mg/kg         mg/kg         A           ND         20.0         1           102 %         70-130         70-130           96.4 %         70-130         70-130           101 %         70-130         70-130           mg/kg         mg/kg         A           ND         25.0         1           ND         50.0         1	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/23/23           ND         0.0250         1         10/23/23           ND         0.0250         1         10/23/23           ND         0.0500         1         10/23/23           ND         0.0250         1         10/23/23           ND         0.0250         1         10/23/23           96.4 %         70-130         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           102 %         70-130         10/23/23           102 %         70-130         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           101 %         70-130         10/23/23           100 %         70-130         10/23/23 </td <td>Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0500         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         70-130         10/23/23         10/25/23           101 %         70-130         10/23/23         10/25/23           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         10/23/23         10/25/23           102 %         70-130         10/23/23         10/25/23           101 %         70-130         10/23/23         10/25/23           101 %         70-130         10/23/23         10/25/23           101 %         70-130</td>	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0500         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         0.0250         1         10/23/23         10/25/23           ND         70-130         10/23/23         10/25/23           101 %         70-130         10/23/23         10/25/23           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         10/23/23         10/25/23           102 %         70-130         10/23/23         10/25/23           101 %         70-130         10/23/23         10/25/23           101 %         70-130         10/23/23         10/25/23           101 %         70-130

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:05:24PM

## PH10 1' E310207-06

		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2343025
Benzene	ND	0.0250	1	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	l	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	l	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	<u>[</u>	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		103 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		101 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst:	RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		103 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8		101 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	[	10/23/23	10/25/23	
Surrogate: n-Nonane		86.3 %	50-200		10/23/23	10/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2343072
	25.2	20.0	-		10/25/23	10/26/23	

WPX Energy - Carlsbad Project Name: RDX 16 #009 Reported:

5315 Buena Vista Dr Project Number: 01058-0007

Carlsbad NM, 88220 Project Manager: Gilbert Moreno 10/27/2023 2:05:24PM

Volatile Organic Compounds by FPA 8260R

	V	olatile Organ	ic Compo	unds by El	PA 82601	В			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 (2343025-BLK1)							Prepared: 1	0/23/23 An	alyzed: 10/25/23
Benzene	ND	0.0250					1		
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	0.525	0.0230	0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			
LCS (2343025-BS1)							Prepared: 1	0/23/23 An	alyzed: 10/25/23
Benzene	2.19	0.0250	2.50		87.8	70-130			
Ethylbenzene	2.25	0.0250	2.50		90.2	70-130			
Toluene	2.16	0.0250	2.50		86.3	70-130			
o-Xylene	2.25	0.0250	2.50		90.1	70-130			
p,m-Xylene	4.40	0.0500	5.00		88.0	70-130			
Total Xylenes	6.65	0.0250	7.50		88.7	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			
Matrix Spike (2343025-MS1)				Source:	E310207-	01	Prepared: 1	0/23/23 An	alyzed: 10/25/23
Benzene	2.38	0.0250	2.50	ND	95.0	48-131			
Ethylbenzene	2.46	0.0250	2.50	ND	98.3	45-135			
Toluene	2.35	0.0250	2.50	ND	94.0	48-130			
o-Xylene	2.42	0.0250	2.50	ND	96.6	43-135			
p,m-Xylene	4.75	0.0500	5.00	ND	94.9	43-135			
Total Xylenes	7.16	0.0250	7.50	ND	95.5	43-135			
Surrogate: Bromofluorobenzene	0.505	0.0230	0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			
				C	E210207	01	D	0/22/22 4	-1 1. 10/25/22
Matrix Spike Dup (2343025-MSD1)	2.22		2.50		E310207-		•		alyzed: 10/25/23
Benzene	2.30	0.0250	2.50	ND	91.9	48-131	3.36	23	
Ethylbenzene	2.41	0.0250	2.50	ND	96.3	45-135	1.97	27	
Toluene	2.31	0.0250	2.50	ND	92.5	48-130	1.63	24	
o-Xylene	2.40	0.0250	2.50	ND	96.0	43-135	0.644	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.1	43-135	0.910	27	
Total Xylenes	7.10	0.0250	7.50	ND	94.7	43-135	0.820	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			



0.500

101

70-130

0.503

Surrogate: Toluene-d8

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

0.501

0.502

## **QC Summary Data**

RDX 16 #009 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007

Carlsbad NM, 88220		Project Manager:	Gi	ilbert Moreno					10/27/2023 2:05:24PM
	No	nhalogenated C	Organics	by EPA 801	5D - Gl	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2343025-BLK1)							Prepared: 1	0/23/23	Analyzed: 10/25/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			
LCS (2343025-BS2)							Prepared: 1	0/23/23	Analyzed: 10/25/23
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			
Matrix Spike (2343025-MS2)				Source: F	E310207-	01	Prepared: 1	0/23/23	Analyzed: 10/25/23
Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			
Matrix Spike Dup (2343025-MSD2)				Source: F	E310207-	01	Prepared: 1	0/23/23	Analyzed: 10/25/23
Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	3.35	20	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			

0.500

0.500

100

100

70-130

70-130



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:05:24PM

Carlsbad NM, 88220		Project Manage	r: Gı	lbert Moreno					10/27/2023 2:05:24PI
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2343027-BLK1)							Prepared: 1	0/23/23 A	analyzed: 10/24/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	47.0		50.0		93.9	50-200			
LCS (2343027-BS1)							Prepared: 1	0/23/23 A	analyzed: 10/24/23
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
urrogate: n-Nonane	47.7		50.0		95.3	50-200			
Matrix Spike (2343027-MS1)				Source:	E310204-	06	Prepared: 1	0/23/23 A	analyzed: 10/24/23
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
urrogate: n-Nonane	51.1		50.0		102	50-200			
Matrix Spike Dup (2343027-MSD1)				Source:	E310204-	06	Prepared: 1	0/23/23 A	analyzed: 10/24/23
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
'urrogate: n-Nonane	47.2		50.0		94.4	50-200			

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 16 #009 1058-0007					Reported:				
Carlsbad NM, 88220		Project Manager:					10/27/2023 2:05:24PM						
Anions by EPA 300.0/9056A 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 (2343072-BLK1)							Prepared:	10/25/23	Analyzed: 10/26/23				
Chloride	ND	20.0											
LCS (2343072-BS1)							Prepared:	10/25/23	Analyzed: 10/26/23				
Chloride	247	20.0	250		98.9	90-110							
Matrix Spike (2343072-MS1)				Source:	E310202-	01	Prepared:	10/25/23	Analyzed: 10/26/23				
Chloride	364	20.0	250	96.3	107	80-120							
Matrix Spike Dup (2343072-MSD1)				Source:	E310202-	)1	Prepared:	10/25/23	Analyzed: 10/26/23				
Chloride	368	20.0	250	96.3	109	80-120	0.938	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 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 14:05

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



**Project Information** 

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Chain of Custody

1 05C VI VI	Page	_1	of_	_1
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Received by OCD: 12/20/2023 1:23:39 PM

Client: W	/PX Energ	y Permia	in, U.C.			Bill To		T		L	ab U	se O	nly	Lab Use Only						EPA F	rogram		
	RDX 16 #0					ttention: Jim Raley	···········	lab	WO				Nun	ber	10	TAT 1D 2D 3D S			Standard C		SDWA		
Project N	Manager:	Gilbert N	Moreno			ddress: 5315 Buena Vista Dr.		F	EBIOZOT			[000-82010]				1	1		TAT yeb		1		
Address:	13000 W	County	Rd 100			City, State, Zip: Carlsbad, NM, 88220						Analysis and Metho			d				<u> </u>		RCRA		
City, Star	te, Zip_O	lessa,TX,	79765			Phone: 575-885-7502			T			Π	T			Т	T	T	1		1		
Phone: 8	32-541-7	719			E	Email: jim.raley@dvn.com			1 5		İ	1	1	i i	1		1	1		State	· <u>·</u>		
Email: D	evon-tear	n@etech	env.com			VO: 21191055		1	3		l	l	l		1			ŀ	NM CO	UT AZ	TX		
						ncident ID: nAPP2322658221.		1	욡		l				1								
Collecte	d by: Edyt	e Konan			l In	APP2317840368			280	1208	8	9	88		Z	l	×						
Time Sampled	Date Sampled	Matrix	the of Corcestron	Sample IC	)		Lab Number	Depth(ft.)	7PH GRO/DRO/ORO by 8015	BTEX by 8	VOC by 8260	Metals 6010	Chloride		BSBOC		2008			Remark	<u> </u>		
11:40	10.19.23	s	1			PH08	1	0.5							×	7							
11:50	10.19.23	S	1			PH08	2	1'							x								
12:00	10.19.23	S	1			3	0.5							x									
12:10	10.19.23	S	1			4	1'							x									
12:20	10.19,23	S	1			PH10	5	0.5							x								
12:30	10.19.23	s	1			PH10	0	1'							×								
																		上					
						10/20/2023																	
						PUL- 22- 22-11-11-11-11-11-11-11-11-11-11-11-11-1																	
	nai Instru																						
1			ed fraud and	may be groun	ample. I am aw ids for legal act			ole loca											d on ice the day ran 6 °C on sub				
Relinquished by: (Signature)   Date   Time   D120/23   10°. 4					10:45	- Received by: (Signature) MICHELLE GONZALES				045		Rec	eivec	on ice:		ab U y / N	se Or I	nly					
Mich	ed by: (Sign	onzale	<del>~</del>	-20-23	1700	Received by: (Skrysture)	Date 10.23.2	3	X.	15	-	71							T3				
Relinquish	ed by: (Sign	sture)	Date		Time	Received by: (Signature)	Date		Time			AVG	Ten	np°C_	4								
				Aqueous, O - (			Containe	Туре	: g - g	lass,	p - p	oly/p	lasti	, ag - am	oer g	lass,	v - VC	)A					
Note: Sam	ples are disc	arded 30 d	lays after re	esults are rep	ported unless	other arrangements are made. Hazardo	us samples wi	l be re	turne	d to cl	lent c	r disp	osed	of at the cl	ent e	xpens	. The	repo	rt for the an	alysis of th	e above		
samples is	applicable of	only to tho:	se samples	received by 1	the laborator	with this COC. The liability of the labora	tory is limited	to the	amou	int pa	id for	on th	e repo	rt.							ı		



envirotech

Printed: 10/23/2023 12:58:03PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	10/23/23	08:15		Work Order ID:	E310207
Phone:	(539) 573-4018	Date Logged In:	10/23/23	09:18		Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:		17:00 (4 day TAT)		088-4-11-7	
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location man	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
	Il samples received within holding time?	•	Yes				
	Note: Analysis, such as pH which should be conducted in					Comment	s/Resolution
	i.e, 15 minute hold time, are not included in this disucssion	on.		1		Comment	S/Resolution
	urn Around Time (TAT)		37				
	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C			3.7				
	sample cooler received?		Yes				
• /	was cooler received in good condition?		Yes				
	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 the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling		Yes				
13. If no v	visible ice, record the temperature.  Actual sample	temperature: 4°0	<u>C</u>				
Sample C	Container						
	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
18. Are no	on-VOC samples collected in the correct containers'	?	Yes				
19. Is the a	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lab	<u>oel</u>						
20. Were	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	ate/Time Collected?		Yes	'			
	ollectors name?		Yes				
-	reservation the COC or field labels indicate the samples were pr	ragamiad9	No				
	imple(s) correctly preserved?	reserveu:	No NA				
	filteration required and/or requested for dissolved n	netals?	No				
	i i	icuis.	110				
	se Sample Matrix	9	3.7				
	the sample have more than one phase, i.e., multipha		No				
	does the COC specify which phase(s) is to be analy	yzeu?	NA				
	act Laboratory						
	imples required to get sent to a subcontract laborato	•	No				
29. Was a	subcontract laboratory specified by the client and in	f so who?	NA	Subcontract Lab	o: NA		
Client In	<u>istruction</u>						
							_

Printed: 10/23/2023 12:58:03PM

## **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	10/23/23	08:15	Work Order ID:	E310207
Phone:	(539) 573-4018	Date Logged In:	10/23/23	09:18	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23	17:00 (4 day TAT)		
~ .						
	Custody (COC)					
	he sample ID match the COC?	ah sha COC	Yes			
	he number of samples per sampling site location mat	en the COC	Yes			
	samples dropped off by client or carrier?	4-4	Yes	Carrier: Courier		
	ne COC complete, i.e., signatures, dates/times, reques	ited analyses?	Yes			
5. were	all samples received within holding time?  Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.		Yes		Comment	s/Resolution
	<u> Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
<b>Sample</b>						
	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			
	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample	Container_					
	iqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?	,	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La						
•	field sample labels filled out with the minimum info	rmation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes	<u> </u>		
	Collectors name?		Yes			
	<u>Preservation</u>					
	the COC or field labels indicate the samples were pr	eserved?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	o filteration required and/or requested for dissolved m	ietals?	No			
	ase Sample Matrix					
	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 analy	zed?	NA			
Subcont	ract Laboratory					
28. Are s	samples required to get sent to a subcontract laborator	ry?	No			
	a subcontract laboratory specified by the client and if	•	NA	Subcontract Lab: NA		
Client I	nstruction					
Chenti	nstruction					
						_

Date

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

# **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311103

Job Number: 04108-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/22/23

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: 11/22/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #009

Workorder: E311103

Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

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**Southern New Mexico Area** 

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ljarboe@envirotech-inc.com

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## **Sample Summary**

		*	
WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	Reported.
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 13:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 6'	E311103-01A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 1:02:38PM

## PH01 6' E311103-01

	E311103-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	st: RKS		Batch: 2346097
ND	0.0250	1	11/16/23	11/17/23	
ND	0.0250	1	11/16/23	11/17/23	
ND	0.0250	1	11/16/23	11/17/23	
ND	0.0250	1	11/16/23	11/17/23	
ND	0.0500	1	11/16/23	11/17/23	
ND	0.0250	1	11/16/23	11/17/23	
	98.3 %	70-130	11/16/23	11/17/23	
mg/kg	mg/kg	Analys	st: RKS		Batch: 2346097
ND	20.0	1	11/16/23	11/17/23	
	92.5 %	70-130	11/16/23	11/17/23	
mg/kg	mg/kg	Analys	t: KM		Batch: 2346075
ND	25.0	1	11/16/23	11/17/23	
ND	50.0	1	11/16/23	11/17/23	
·	96.1 %	50-200	11/16/23	11/17/23	
mg/kg	mg/kg	Analys	st: BA		Batch: 2346090
482	20.0	1	11/1/22	11/16/23	
	mg/kg ND ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         20.0250           98.3 %         mg/kg           MD         20.0           92.5 %         mg/kg           ND         25.0           ND         50.0           96.1 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Analys           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           MD         0.0250         1           MB/kg         mg/kg         Analys           ND         20.0         1           92.5 %         70-130         70-130           mg/kg         mg/kg         Analys           ND         25.0         1           ND         50.0         1           96.1 %         50-200           mg/kg         Mg/kg         Analys	Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         11/16/23           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         11/16/23           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         11/16/23           ND         50.0         1         11/16/23           ND         50.0         1         11/16/23           ND         50.0         1         11/16/23           ND         50.0         1         11/16/23	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         11/16/23         11/17/23           ND         0.0250         1         11/16/23         11/17/23           ND         0.0250         1         11/16/23         11/17/23           ND         0.0500         1         11/16/23         11/17/23           ND         0.0250         1         11/16/23         11/17/23           ND         0.0250         1         11/16/23         11/17/23           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         11/16/23         11/17/23           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         11/16/23         11/17/23           ND         25.0         1         11/16/23         11/17/23           ND         50.0         1         11/16/23         11/17/23           ND         50.0         1         11/16/23         11/17/23           ng/kg         mg/kg         Analyst: BA



		QC Si	umma	ii y Data	l .					
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		RDX 16 #009 04108-0639					Reported:	
Carlsbad NM, 88220		Project Manager:	Gi	ilbert Moreno					11/22/2023 1:02:38PM	
		Volatile O	rganics b	oy EPA 8021	1B			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 (2346097-BLK1)							Prepared: 1	1/16/23 A	Analyzed: 11/17/23	
Benzene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Toluene	ND	0.0250								
o-Xylene	ND	0.0250								
o,m-Xylene	ND	0.0500								
Total Xylenes	ND	0.0250								
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.6	70-130				
LCS (2346097-BS1)							Prepared: 1	1/16/23 A	Analyzed: 11/17/23	
Benzene	4.68	0.0250	5.00		93.6	70-130				
Ethylbenzene	4.66	0.0250	5.00		93.3	70-130				
Toluene	4.69	0.0250	5.00		93.8	70-130				
o-Xylene	4.70	0.0250	5.00		94.0	70-130				
o,m-Xylene	9.51	0.0500	10.0		95.1	70-130				
Total Xylenes	14.2	0.0250	15.0		94.7	70-130				
Surrogate: 4-Bromochlorobenzene-PID	7.91		8.00		98.8	70-130				
Matrix Spike (2346097-MS1)				Source: I	E311115-2	22	Prepared: 1	1/16/23 A	Analyzed: 11/17/23	
Benzene	5.31	0.0250	5.00	ND	106	54-133				
Ethylbenzene	5.25	0.0250	5.00	ND	105	61-133				
Toluene	5.30	0.0250	5.00	ND	106	61-130				
p-Xylene	5.28	0.0250	5.00	ND	106	63-131				
o,m-Xylene	10.7	0.0500	10.0	ND	107	63-131				
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131				
Surrogate: 4-Bromochlorobenzene-PID	7.97		8.00		99.7	70-130				
Matrix Spike Dup (2346097-MSD1)				Source: I	E311115-2	22	Prepared: 1	1/16/23 A	Analyzed: 11/17/23	
Benzene	5.21	0.0250	5.00	ND	104	54-133	1.82	20		
Ethylbenzene	5.16	0.0250	5.00	ND	103	61-133	1.81	20		
Toluene	5.19	0.0250	5.00	ND	104	61-130	2.07	20		
. V-1	5.19	0.0250	5.00	ND	104	62 121	1.01	20		

5.18

10.5

15.7

8.04

0.0250

0.0500

0.0250

5.00

10.0

15.0

8.00

ND

ND

ND

104

105

104

63-131

63-131

63-131

70-130



20

20

20

1.91

2.03

1.99

o-Xylene

p,m-Xylene Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 1:02:38PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno	)			1	1/22/2023 1:02:38PN
	Nor	Nonhalogenated Organics by EPA 8015D - GRO							
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2346097-BLK1)							Prepared: 1	1/16/23 An	alyzed: 11/17/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			
LCS (2346097-BS2)							Prepared: 1	1/16/23 An	alyzed: 11/17/23
Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130			
Matrix Spike (2346097-MS2)				Source:	E311115-2	22	Prepared: 1	1/16/23 An	alyzed: 11/17/23
Gasoline Range Organics (C6-C10)	51.1	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			
Matrix Spike Dup (2346097-MSD2)				Source:	E311115-2	22	Prepared: 1	1/16/23 An	alyzed: 11/17/23
Gasoline Range Organics (C6-C10)	48.6	20.0	50.0	ND	97.2	70-130	5.09	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 1:02:38PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno	•			1	1/22/2023 1:02:38PN	
	Nonhalogenated Organics 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 (2346075-BLK1)							Prepared: 1	1/16/23 Ar	nalyzed: 11/17/23	
Diesel Range Organics (C10-C28)	ND	25.0								
Oil Range Organics (C28-C36)	ND	50.0								
Surrogate: n-Nonane	44.8		50.0		89.7	50-200				
LCS (2346075-BS1)							Prepared: 1	1/16/23 Ar	nalyzed: 11/17/23	
Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132				
Surrogate: n-Nonane	50.2		50.0		100	50-200				
Matrix Spike (2346075-MS1)				Source:	E311102-2	27	Prepared: 1	1/16/23 Ar	nalyzed: 11/17/23	
Diesel Range Organics (C10-C28)	247	25.0	250	ND	99.0	38-132				
Surrogate: n-Nonane	45.0		50.0		90.1	50-200				
Matrix Spike Dup (2346075-MSD1)				Source:	E311102-2	27	Prepared: 1	1/16/23 Ar	nalyzed: 11/17/23	
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.2	38-132	0.202	20		
Surrogate: n-Nonane	44.9		50.0		89.8	50-200				

Chloride

## **QC Summary Data**

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 16 #009 1108-0639					Reported:
Carlsbad NM, 88220		Project Manager		ilbert Moreno					11/22/2023 1:02:38PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	<b>\</b>				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2346090-BLK1)							Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	ND	20.0							
LCS (2346090-BS1)							Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)				Source:	E311129-(	)5	Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)				Source:	E311129-(	)5	Prepared:	11/16/23	Analyzed: 11/16/23

250

20.0

775

100

80-120

2.23

1030

#### 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 16 #009	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 13:02

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



**Project Information** 

**Chain of Custody** 

Page \_\_1\_\_ of \_\_1\_\_

Received by OCD: 12/20/2023 1:23:39 PM

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roject: F	OX 16 #0	09	.,,			ttention: Jim Raley		Lab WQ#				Job	Num			1D	20	3D	Sta	andard	CWA	SD	WA
roject N	lanager: (	Gilbert M	Toreno			ddress: 5315 Buena Vista Dr.	***************************************	E3	$\Pi \mathbf{l}$	0.3	)	1 <del>OK</del>	108	-0a	7				5 d	TAT yet			
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Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other C						Containe	AVG Temp °C Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																
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envirotech

Printed: 11/15/2023 11:32:52AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Email: devon-team@ensolum.com  Due Date: 11/17/23 17:00 (4 day TAT)  Chain of Custody (COC)  1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses?  Yes  11/17/23 17:00 (4 day TAT)  Yes  Carrier: Courier  Yes	n Montano
Chain of Custody (COC)  1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses?  Yes  Carrier: Courier  Yes	
1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses?  Yes  Carrier: Courier  Yes	
1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses?  Yes  Carrier: Courier  Yes	
2. Does the number of samples per sampling site location match the COC  3. Were samples dropped off by client or carrier?  4. Was the COC complete, i.e., signatures, dates/times, requested analyses?  Yes  Carrier: Courier  Yes	
3. Were samples dropped off by client or carrier?  4. Was the COC complete, i.e., signatures, dates/times, requested analyses?  Yes  Carrier: Courier  Yes	
4. Was the 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 field,  i.e. 15 minute hold time, are not included in this dispession.  Comments/Resolu	lution
i.e, 15 minute hold time, are not included in this disucssion.  Sample Turn Around Time (TAT)	
6. Did the COC indicate standard TAT, or Expedited TAT?  Yes	
Sample Cooler	
7. Was a sample cooler received? Yes	
8. If yes, was cooler received in good condition? Yes	
9. Was the sample(s) received intact, i.e., not broken?	
10. Were custody/security seals present?	
11.70	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C  Note: Thermal preservation is not required, if samples are received w/i 15  minutes of sampling	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	
Sample Container  YOUR THE PROPERTY OF THE PRO	
14. Are aqueous VOC samples present?  No	
15. Are VOC samples collected in VOA Vials?  NA	
16. Is the head space less than 6-8 mm (pea sized or less)?  NA	
17. Was a trip blank (TB) included for VOC analyses?  NA	
18. Are non-VOC samples collected in the correct containers? Yes	
19. Is the appropriate volume/weight or number of sample containers collected?  Yes	
Field Label	
20. Were field sample labels filled out with the minimum information:  Sample ID?  Yes	
Date/Time Collected? Yes	
Collectors name? Yes	
Sample Preservation	
21. Does the COC or field labels indicate the samples were preserved?	
22. Are sample(s) correctly preserved?	
24. Is lab filteration required and/or requested for dissolved metals?	
Multiphase Sample Matrix	
26. Does the sample have more than one phase, i.e., multiphase?	
27. If yes, does the COC specify which phase(s) is to be analyzed?	
Subcontract Laboratory  20. A subcontract Laboratory	
28. Are samples required to get sent to a subcontract laboratory?  No	
29. Was a subcontract laboratory specified by the client and if so who?  NA Subcontract Lab: NA	
Client Instruction	

Date

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

# **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311104

Job Number: 04108-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/22/23

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: 11/22/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #009

Workorder: E311104

Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

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Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

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ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative
Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## **Sample Summary**

_			•	
Γ	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
ı	5315 Buena Vista Dr	Project Number:	04108-0639	Reported.
١	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 10:13

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH04 6'	E311104-01A	Soil	11/18/23	11/13/23	Glass Jar, 4 oz.



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:13:17AM

## PH04 6' E311104-01

		ECTITO: 01					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Analyte	Result	Limit	Dil	ution	Frepared	Allalyzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RKS		Batch: 2347012
Benzene	ND	0.0250		1	11/20/23	11/20/23	
Ethylbenzene	ND	0.0250		1	11/20/23	11/20/23	
Toluene	ND	0.0250		1	11/20/23	11/20/23	
o-Xylene	ND	0.0250		1	11/20/23	11/20/23	
p,m-Xylene	ND	0.0500		1	11/20/23	11/20/23	
Total Xylenes	ND	0.0250		1	11/20/23	11/20/23	
Surrogate: Bromofluorobenzene		99.5 %	70-130		11/20/23	11/20/23	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130		11/20/23	11/20/23	
Surrogate: Toluene-d8		109 %	70-130		11/20/23	11/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2347012
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/20/23	11/20/23	
Surrogate: Bromofluorobenzene		99.5 %	70-130		11/20/23	11/20/23	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130		11/20/23	11/20/23	
Surrogate: Toluene-d8		109 %	70-130		11/20/23	11/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: Љ		Batch: 2347018
Diesel Range Organics (C10-C28)	ND	25.0		1	11/20/23	11/20/23	
Oil Range Organics (C28-C36)	ND	50.0		1	11/20/23	11/20/23	
Surrogate: n-Nonane		153 %	50-200		11/20/23	11/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2347005
Chloride	299	20.0		1	11/20/23	11/20/23	



WPX Energy - Carlsbad Project Name: RDX 16 #009 Reported:
5315 Buena Vista Dr Project Number: 04108-0639
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/22/2023 10:13:17AM

Carisbad Nivi, 88220		Project Manage	r. Gi	ibert Moreno				11/2.	2/2023 10.13.1/A
	V	olatile Organ	ic Compo	unds by El	PA 8260E	3		A	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 (2347012-BLK1)							Prepared: 1	1/20/23 Analy	yzed: 11/20/23
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	0.499	******	0.500		99.8	70-130			
			0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500								
Surrogate: Toluene-d8	0.551		0.500		110	70-130			
LCS (2347012-BS1)							Prepared: 1	1/20/23 Analy	zed: 11/20/23
Benzene	2.65	0.0250	2.50		106	70-130			
Ethylbenzene	2.68	0.0250	2.50		107	70-130			
Toluene	2.71	0.0250	2.50		108	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.16	0.0500	5.00		103	70-130			
Total Xylenes	7.76	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			
Matrix Spike (2347012-MS1)				Source:	E311148-0	)1	Prepared: 1	1/20/23 Analy	zed: 11/21/23
Benzene	2.66	0.0250	2.50	ND	106	48-131	1		
Ethylbenzene	2.69	0.0250	2.50	ND	107	45-135			
Toluene	2.74	0.0250	2.50	ND	109	48-130			
o-Xylene	2.57	0.0250	2.50	ND	103	43-135			
p,m-Xylene	5.16	0.0500	5.00	ND	103	43-135			
Total Xylenes	7.74	0.0250	7.50	ND	103	43-135			
Surrogate: Bromofluorobenzene	0.487	0.0230	0.500	112	97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			
				<b>S</b> a	E311148-0		Dronemad. 1	1/20/22 4 1-	grad: 11/21/22
Matrix Spike Dup (2347012-MSD1)	2.56		2.50				•	<u>*</u>	zed: 11/21/23
Benzene	2.56	0.0250	2.50	ND	102	48-131	3.83	23	
Ethylbenzene	2.62	0.0250	2.50	ND	105	45-135	2.58	27	
Toluene	2.68	0.0250	2.50	ND	107	48-130	2.05	24	
o-Xylene	2.51 5.06	0.0250	2.50 5.00	ND ND	100 101	43-135 43-135	2.48 2.08	27 27	
p,m-Xylene	5.06 7.57	0.0500	7.50	ND ND	101	43-135	2.08	27	
Total Xylenes		0.0250		ND			2.22	41	
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			



0.500

108

70-130

0.539

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

## **QC Summary Data**

RDX 16 #009 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 04108-0639

Carlsbad NM, 88220		Project Manager	r: Gi	lbert Moreno				11	/22/2023 10:13:17AM
	Non	halogenated	Organics	by EPA 801	15D - GI	RO			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 (2347012-BLK1)							Prepared: 1	1/20/23 An	alyzed: 11/20/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
Surrogate: Toluene-d8	0.551		0.500		110	70-130			
LCS (2347012-BS2)							Prepared: 1	1/20/23 An	alyzed: 11/20/23
Gasoline Range Organics (C6-C10)	51.7	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			
Matrix Spike (2347012-MS2)				Source:	E311148-0	)1	Prepared: 1	1/20/23 An	alyzed: 11/21/23
Gasoline Range Organics (C6-C10)	52.4	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.555		0.500		111	70-130			
Matrix Spike Dup (2347012-MSD2)				Source:	E311148-0	)1	Prepared: 1	1/20/23 An	alyzed: 11/21/23
Gasoline Range Organics (C6-C10)	52.8	20.0	50.0	ND	106	70-130	0.678	20	

0.500

0.500

0.500

101

104

111

70-130

70-130

70-130

0.507

0.519

0.555



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:13:17AM

Carlsbad NM, 88220		Project Manager	r: Gi	lbert Moreno				11	/22/2023 10:13:1/A	
	Nonhalogenated Organics by EPA 8015D - DRO/ORO							Analyst: JL		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2347018-BLK1)				Prepa				epared: 11/20/23 Analyzed: 11/20/23		
riesel Range Organics (C10-C28)	ND	25.0								
ril Range Organics (C28-C36)	ND	50.0								
urrogate: n-Nonane	56.9		50.0		114	50-200				
.CS (2347018-BS1)							Prepared: 11/20/23 Analyzed: 11/20/23			
riesel Range Organics (C10-C28)	250	25.0	250		100	38-132				
urrogate: n-Nonane	53.6		50.0		107	50-200				
Aatrix Spike (2347018-MS1)				Source: E311152-22			Prepared: 11/20/23 Analyzed: 11/20/23			
riesel Range Organics (C10-C28)	264	25.0	250	ND	106	38-132				
urrogate: n-Nonane	55.5		50.0		111	50-200				
Matrix Spike Dup (2347018-MSD1)				Source:	Source: E311152-22			Prepared: 11/20/23 Analyzed: 11/20/23		
riesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	1.09	20		



Chloride

Chloride

Chloride

Matrix Spike (2347005-MS1)

Matrix Spike Dup (2347005-MSD1)

250

9930

10000

## **QC Summary Data**

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number Project Manager	: 04	DX 16 #009 1108-0639 ilbert Moreno					<b>Reported:</b> 11/22/2023 10:13:17AM
		Anions	by EPA 3	00.0/9056	4				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 (2347005-BLK1)						]	Prepared: 1	1/20/23 A	nalyzed: 11/20/23
Chloride	ND	20.0							
LCS (2347005-BS1)						]	Prepared: 1	1/20/23 A	nalyzed: 11/20/23

250

250

250

20.0

400

400

90-110

80-120

80-120

0.769

Prepared: 11/20/23 Analyzed: 11/20/23

Prepared: 11/20/23 Analyzed: 11/20/23

20

M4

99.9

NR

NR

Source: E311137-02

Source: E311137-02

10200

10200

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



### **Definitions and Notes**

ſ	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
١	5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
١	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 10:13

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

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



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	13000 W e, Zip_Od					Phone: 575-885-7502	GOZZO		T														
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date or time	of collection	n is consider		d may be groun		ction. Sampled by: GM			1-										-	Con suo	acquent t		
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Received by OCD: 12/20/2023 1:23:39 PM

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	DX 16 #0		1, LLC.		-	Attention: Jim Raley		lab	WO			lab	A(	ber		1D	2D	3D	St	andard	CWA	SDW
	lanager: C		oreno		7	Address: 5315 Buena Vista Dr.	•	TE:	3111	OU	<b>+</b>	04	BU	<u> </u>	9				5	day TAT		
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	e, Zip_Od				7	Phone: 575-885-7502			Τ.,												<u> </u>	<u>.                                    </u>
Phone: 8	32-541-77	19				Email: jim.raley@dvn.com			8	1	ļ										State	l = d
Email: De	evon-team	@etech	env.com			WO: 21191055			ă ă	İ	ĺ								l	NM CO	UTIA	2 1X
Collected	d by: Edyte	e Konan				Incident ID: nAPP2322658221, nAPP2317840368			TPH GRO/DRO/ORO by 8015	8021	8260	010	300.0			NN.		۲		×		
Time Sampled	Date Sampled	Matrix	Its of Containers	Sample ID			Lab Numb	Tepth(ft.)	TPH GRO	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC		CBOC			Remark	S
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envirotech

Printed: 11/13/2023 1:49:00PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

• • •	Client:	WPX Energy - Carlsbad	Date Received:	11/13/23	09:00		Work Order ID:	E311104
Chain of Custody (COC)  1. Does the number of samples per sampling site location match the COC 2. Does the number of samples per sampling site location match the COC 3. Were simples dropped off by olitine or carrier? 4. Was the COC complete, i.e., signatures, dates traines, requested analyses? 5. Were all samples received within holding time? 6. Were all samples received within holding time? 7. Was a sample cooler received match the cooler trained and the field, i.e., 15 minuse hold time, are not included in this dissussion.  Sample Turn Around Time (TAT)  8. Did the COC indicates snandard TAT, or Expedited TAT?  7. Was a sample cooler received? 7. Was a sample cooler received in good condition? 8. Were all sample for received in good condition? 9. Was the sample(sy) neceived insteat, i.e., not broken? 10. Were custody/security seals present? 11. Were custody/security seals present? 12. Was the sample trained on itself 1/15 sea, the received will be considered in the conference of the co	Phone:	(539) 573-4018	Date Logged In:	11/13/23	13:46		Logged In By:	Jordan Montano
L. Does the sample ID match the COC?  2. Does the number of samples per sampling site location match the COC  3. Were samples dropped off by client or carrier?  4. Was the COC complete, i.e., signatures, clatect/imes, requested analyses?  5. Were all Samples received within bolding inner?  7. Wes a land the COC indicate standard TAT, or Expedited TAT?  8. Were all Samples received within bolding inner?  8. Did the COC indicate standard TAT, or Expedited TAT?  9. Was a sample cooler received in good condition?  9. Was the sample Cooler received in good condition?  9. Was the sample(s) received intact, i.e., not broken?  10. Were custody/security seals intact?  11. If yes, were custody/security seals intact?  12. Was the sample in every discrete in the finance of samples are received with 15 monated of sampling and samples are received with 15 monated of sampling and samples are received with 15 monated of sampling and samples are received with 15 monated of sampling and samples are received with 15 monated of sampling and samples are received with 15 monated of sampling and samples are received with 15 monated of sampling and samples are received with 15 monated of sampling and samples are received with 15 monated of sampling and samples are received with 15 monated of sampling and samples are received with 15 monated of samples present?  14. Are aqueous VOC samples present?  15. Are VOC samples collected in the correct containers?  9. Vas  18. Are non-VOC samples collected in the correct containers?  9. Vas  19. Is the appropriate volume/weight or number of sample containers collected?  9. Vas  19. Is the appropriate volume/weight or number of sample containers collected?  9. Vas  19. Local Collected?  10. Contrier Labels (No. No. No. No. No. No. No. No. No. No.	Email:	devon-team@ensolum.com	Due Date:	11/20/23	17:00 (5 day TAT)			
L. Does the sample ID match the COC?  2. Does the number of samples per sampling site location match the COC  3. Were samples dropped off by client or carrier?  4. Was the COC complete, i.e., signatures, clatect/imes, requested analyses?  5. Were all Samples received within bolding inner?  7. Wes a land the COC indicate standard TAT, or Expedited TAT?  8. Were all Samples received within bolding inner?  8. Did the COC indicate standard TAT, or Expedited TAT?  9. Was a sample cooler received in good condition?  9. Was the sample Cooler received in good condition?  9. Was the sample(s) received intact, i.e., not broken?  10. Were custody/security seals intact?  11. If yes, were custody/security seals intact?  12. Was the sample in every discrete in the finance of samples are received with 15 monated of sampling and samples are received with 15 monated of sampling and samples are received with 15 monated of sampling and samples are received with 15 monated of sampling and samples are received with 15 monated of sampling and samples are received with 15 monated of sampling and samples are received with 15 monated of sampling and samples are received with 15 monated of sampling and samples are received with 15 monated of sampling and samples are received with 15 monated of sampling and samples are received with 15 monated of samples present?  14. Are aqueous VOC samples present?  15. Are VOC samples collected in the correct containers?  9. Vas  18. Are non-VOC samples collected in the correct containers?  9. Vas  19. Is the appropriate volume/weight or number of sample containers collected?  9. Vas  19. Is the appropriate volume/weight or number of sample containers collected?  9. Vas  19. Local Collected?  10. Contrier Labels (No. No. No. No. No. No. No. No. No. No.	Chain o	f Custody (COC)						
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15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip blank (TB) included for VOC analyses?  NA  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Were field sample labels filled out with the minimum information:  Sample ID?  Date/Time Collected?  Collectors name?  20. Were field sample labels indicate the samples were preserved?  No  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved?  NA  24. Is lab filteration required and/or requested for dissolved metals?  No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase?  No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  NA  Subcontract Laboratory specified by the client and if so who?  NA  Subcontract Lab: NA								
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29. Was a subcontract laboratory specified by the client and if so who?  NA Subcontract Lab: NA				3.7				
			-					
Client Instruction	29. Was	a subcontract laboratory specified by the client and i	r so who?	NA	Subcontract Lab	: NA		
	Client I	nstruction						

Report to:
Gilbert Moreno





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311105

Job Number: 04108-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/17/23

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: 11/17/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #009

Workorder: E311105

Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

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## **Sample Summary**

_			<u> </u>	
Γ	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
ı	5315 Buena Vista Dr	Project Number:	04108-0639	Reported.
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 14:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH05 6'	E311105-01A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.



# Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:26:58PM

### PH05 6' E311105-01

		EUTITUS UT					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
Analyte	Result	Limit			•	Anaryzeu	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: RK	S		Batch: 2346022
Benzene	ND	0.0250	1		11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1		11/14/23	11/16/23	
Toluene	ND	0.0250	1		11/14/23	11/16/23	
o-Xylene	ND	0.0250	1		11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1		11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1		11/14/23	11/16/23	
Surrogate: Bromofluorobenzene		107 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8		98.9 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: RK	S		Batch: 2346022
Gasoline Range Organics (C6-C10)	ND	20.0	1		11/14/23	11/16/23	
Surrogate: Bromofluorobenzene		107 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8		98.9 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: KN	1		Batch: 2346076
Diesel Range Organics (C10-C28)	ND	25.0	1		11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1		11/16/23	11/16/23	
Surrogate: n-Nonane		110 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: BA			Batch: 2346090
Chloride	232	200	10	0	11/16/23	11/16/23	



Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

## **QC Summary Data**

RDX 16 #009 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 04108-0639 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/17/2023 2:26:58PM Volatile Organic Compounds by EPA 8260B Analyst: RKS Spike Source RPD Reporting Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2346022-BLK1) Prepared: 11/14/23 Analyzed: 11/15/23 ND 0.0250 ND Ethylbenzene 0.0250 ND Toluene 0.0250 o-Xylene ND 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: Bromofluorobenzene 0.544 0.500 109 70-130

LCS (2346022-BS1)					Prepared: 11/14/23 Analyzed: 11/15/23	
Benzene	2.67	0.0250	2.50	107	70-130	
Ethylbenzene	2.47	0.0250	2.50	98.9	70-130	
Toluene	2.39	0.0250	2.50	95.8	70-130	
o-Xylene	2.50	0.0250	2.50	100	70-130	
p,m-Xylene	4.89	0.0500	5.00	97.8	70-130	
Total Xylenes	7.40	0.0250	7.50	98.6	70-130	
Surrogate: Bromofluorobenzene	0.546		0.500	109	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500	97.0	70-130	
Surrogate: Toluene-d8	0.484		0.500	96.8	70-130	

0.500

0.500

95.7

97.8

70-130

70-130

0.479

0.489

Matrix Spike (2346022-MS1)				Source:	E311088-	02	Prepared: 11/14/23 Analyzed: 11/15/23
Benzene	2.45	0.0250	2.50	ND	98.2	48-131	
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135	
Toluene	2.24	0.0250	2.50	ND	89.8	48-130	
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135	
p,m-Xylene	4.68	0.0500	5.00	ND	93.6	43-135	
Total Xylenes	7.07	0.0250	7.50	ND	94.2	43-135	
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130	
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130	

Matrix Spike Dup (2346022-MSD1)				Source:	E311088-	02	Prepared: 11/14/23 Analyzed: 11/15/23					
Benzene	2.65	0.0250	2.50	ND	106	48-131	7.51	23				
Ethylbenzene	2.50	0.0250	2.50	ND	99.9	45-135	8.21	27				
Toluene	2.41	0.0250	2.50	ND	96.4	48-130	7.07	24				
o-Xylene	2.58	0.0250	2.50	ND	103	43-135	7.71	27				
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135	7.32	27				
Total Xylenes	7.62	0.0250	7.50	ND	102	43-135	7.45	27				
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130						
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130						
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130						

Surrogate: Toluene-d8

## **QC Summary Data**

WPX Energy - Carlsbad Project Name: RDX 16 #009 Reported:
5315 Buena Vista Dr Project Number: 04108-0639
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/17/2023 2:26:58PM

Carisbau IVIVI, 88220		1 Toject Manage	i. Gi	ibert ivioreno				117	1772023 2.20.301
	Non	halogenated	Organics l	by EPA 801	15D - Gl	RO		1	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 (2346022-BLK1)							Prepared: 1	1/14/23 Anal	yzed: 11/15/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			
LCS (2346022-BS2)							Prepared: 1	1/14/23 Anal	yzed: 11/15/23
Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			
Matrix Spike (2346022-MS2)				Source:	E311088-0	02	Prepared: 1	1/14/23 Anal	yzed: 11/15/23
Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			

Gasoline Range Organics (C6-C10)							Prepared: 11/14/23 Analyzed: 11/15/2			
Gasonie Range Organies (Co-C10)	55.8	20.0	50.0	ND	112	70-130	2.39	20		
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130				
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130				

0.500

0.493

98.6

70-130

# **QC Summary Data**

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:26:58PM

Carlsbad NM, 88220		Project Manage	r: G1	lbert Moreno					11/17/2023 2:26:58Pl
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2346076-BLK1)							Prepared: 1	1/16/23 Ar	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.3		50.0		107	50-200			
LCS (2346076-BS1)							Prepared: 1	1/16/23 Ar	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	58.2		50.0		116	50-200			
Matrix Spike (2346076-MS1)				Source:	E311101-0	)3	Prepared: 1	1/16/23 Ar	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	52.9		50.0		106	50-200			
Matrix Spike Dup (2346076-MSD1)				Source:	E311101-0	)3	Prepared: 1	1/16/23 Ar	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	2.21	20	
Surrogate: n-Nonane	53.0		50.0		106	50-200			



## **QC Summary Data**

WPX Energy - Carlsbad		Project Name:		DX 16 #009					Reported:
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:		1108-0639 ilbert Moreno					11/17/2023 2:26:58PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	A				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2346090-BLK1)							Prepared: 1	1/16/23 A	nalyzed: 11/16/23
Chloride	ND	20.0							
LCS (2346090-BS1)							Prepared: 1	1/16/23 A	nalyzed: 11/16/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)				Source:	E311129-0	)5	Prepared: 1	1/16/23 A	nalyzed: 11/16/23
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)				Source:	E311129-0	)5	Prepared: 1	1/16/23 A	nalyzed: 11/16/23
Chloride	1030	20.0	250	775	100	80-120	2.23	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 16 #009	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 14:26

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



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**Project Information** 

**Chain of Custody** 

Page	1	of	1
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Received by OCD: 12/20/2023 1:23:39 PM

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lient: W	PX Energ	y Permia	n, LLC.		TI	Bill To				Li	b U	se Or	nly					TA	\T		EPA P	rogram
	RDX 16 #0				A	ttention: Jim Raley		Lab	WO!	#			Num	ber		1D	2D	3D		ndard	CWA	SDWA
	lanager: (				A	ddress: 5315 Buena Vista Dr.		E3	3110	15		OK							5 d	ay TAT		
Address:	13000 W	County F	Rd 100			ity, State, Zip: Carlsbad, NM, 8822	0					Analy	ysis a	nd Me	thoc	1						RCRA
City, Stat	e, Zip_Od	lessa,TX,	79765		P	hone: 575-885-7502			_			•					- 1	l				
	32-541-77				Ε	mail: jim.raley@dvn.com			801		1	1					- 1	- 1	L		State	<del>y</del>
mail: De	von-tean	n@etech	env.com	1	v	VO: 21191055			ã			1					l		Ļ	NM CO	UT AZ	TX
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Time Sampled	Date Sampled	Matrix	Pla of Conceinen	Sample ID	· · · · · · · · · · · · · · · · · · ·		Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			<b>BGDOC</b>		900 900			Remarks	
10:20	11.09.23	S	1			PH05	1	6'								x						
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						ry with this COC. The liability of the laborat									e cile	ur ext	pense.	The	report	t for the an	alysis of th	e above
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envirotech

Printed: 11/15/2023 11:44:54AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/13/23 (	09:00		Work Order ID:	E311105
Phone:	(539) 573-4018	Date Logged In:	11/13/23	13:50		Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC	Yes				
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: Co	ourier		
4. Was th	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes				
5. Were a	Il samples received within holding time?	•	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion			-		Comment	s/Resolution
	<u> [urn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (							
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
	, ,	temperature. 4	<u>C</u>				
	Container queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?	1	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lal	· · · · · · · · · · · · · · · · · · ·	iers conecteur	105				
	field sample labels filled out with the minimum info	rmation:					
	ample ID?	imation.	Yes				
	pate/Time Collected?		Yes	L			
C	ollectors name?		Yes				
Sample I	Preservation_						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborator	w9	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab:	NIA		
		so who.	1421	Subcontract Lab.	. IVA		
Client II	<u>nstruction</u>						

Date

Page 12 of 12

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

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

# **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311106

Job Number: 04018-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/17/23

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: 11/17/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #009

Workorder: E311106

Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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### **Sample Summary**

_				
Γ	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
l	5315 Buena Vista Dr	Project Number:	04018-0639	Reported:
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 14:25

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH06 6'	E311106-01A	Solid	11/09/23	11/13/23	Glass Jar, 4 oz.



# Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	04018-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:25:49PM

### PH06 6' E311106-01

		ECTITION OF					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
Analyte	Result	Lillit	Dilu	tion	Frepared	Allalyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: R	KS		Batch: 2346022
Benzene	ND	0.0250	1		11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1		11/14/23	11/16/23	
Toluene	ND	0.0250	1		11/14/23	11/16/23	
o-Xylene	ND	0.0250	1		11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1		11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1		11/14/23	11/16/23	
Surrogate: Bromofluorobenzene		107 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8		97.8 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: R	KS		Batch: 2346022
Gasoline Range Organics (C6-C10)	ND	20.0	1		11/14/23	11/16/23	
Surrogate: Bromofluorobenzene		107 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8		97.8 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: K	M		Batch: 2346076
Diesel Range Organics (C10-C28)	ND	25.0	1		11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1		11/16/23	11/16/23	
Surrogate: n-Nonane		110 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: B	Α		Batch: 2346090
Chloride	222	200	10	0	11/16/23	11/16/23	



### **QC Summary Data**

RDX 16 #009 WPX Energy - Carlsbad Project Name: Reported: Project Number: 5315 Buena Vista Dr 04018-0639 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/17/2023 2:25:49PM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2346022-BLK1) Prepared: 11/14/23 Analyzed: 11/15/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.544 0.500 109 70-130 Surrogate: 1,2-Dichloroethane-d4 0.479 0.500 95.7 70-130 0.500 97.8 70-130 Surrogate: Toluene-d8 0.489 LCS (2346022-BS1) Prepared: 11/14/23 Analyzed: 11/15/23 2.67 0.0250 2.50 107 70-130 Benzene 2.47 2.50 98.9 70-130 Ethylbenzene 0.0250 2.39 0.0250 2.50 95.8 70-130 2.50 70-130 0.0250 2.50 100 o-Xylene 4.89 5.00 97.8 70-130 p,m-Xylene 0.0500 7.40 0.0250 7.50 98.6 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.546 0.500 109 70-130 0.500 97.0 70-130 Surrogate: 1,2-Dichloroethane-d4 0.485 70-130 Surrogate: Toluene-d8 0.484 0.500 Matrix Spike (2346022-MS1) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23 48-131 2.45 0.0250 2.50 ND 98.2 45-135 Ethylbenzene 2.30 0.0250 2.50 ND 92.0 ND 48-130 Toluene 2.24 0.0250 2.50 89.8 2.39 0.0250 2.50 ND 95.5 43-135 o-Xylene 4.68 5.00 ND 93.6 43-135 p,m-Xylene 0.0500 Total Xylenes 7.07 0.0250 7.50 ND 94.2 43-135 Surrogate: Bromofluorobenzene 0.554 0.500 111 70-130 0.500 96.4 70-130 Surrogate: 1,2-Dichloroethane-d4 0.482 0.500 99.2 70-130 0.496 Surrogate: Toluene-d8

Source: E311088-02

106

99.9

96.4

103

101

102

110

93.3

48-131

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

7.51

8.21

7.07

7.71

7.32

7.45

ND

ND

ND

ND

ND

ND



Prepared: 11/14/23 Analyzed: 11/15/23

23

27

24

27

27

27

Matrix Spike Dup (2346022-MSD1)

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

2.65

2.50

2.41

2.58

5.04

7.62

0.552

0.467

0.489

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

2.50

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

Gasoline Range Organics (C6-C10)

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

## **QC Summary Data**

WPX Energy - Carlsbad Project Name: RDX 16 #009 Reported:
5315 Buena Vista Dr Project Number: 04018-0639
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/17/2023 2:25:49PM

Carlsbad NM, 88220		Project Manager	:: Gi	lbert Moreno				11/1	7/2023 2:25:49PN
	Non	halogenated (	Organics l		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 (2346022-BLK1)							Prepared: 1	1/14/23 Analy	vzed: 11/15/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			
LCS (2346022-BS2)							Prepared: 1	1/14/23 Analy	zed: 11/15/23
Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			
Matrix Spike (2346022-MS2)				Source: I	E <b>311088-</b> (	)2	Prepared: 1	1/14/23 Analy	zed: 11/15/23
Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			
Matrix Spike Dup (2346022-MSD2)				Source: I	E <b>311088-</b> (	)2	Prepared: 1	1/14/23 Analy	zed: 11/15/23

50.0

0.500

0.500

0.500

20.0

55.8

0.549

0.474

0.500

70-130

70-130

70-130

70-130

2.39

112

110

94.8

99.9



# **QC Summary Data**

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:25:49PM

Carlsbad NM, 88220		Project Manage	r: G1	lbert Moreno					11/1//2023 2:25:49PN
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2346076-BLK1)							Prepared: 1	1/16/23 Aı	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	53.3		50.0		107	50-200			
LCS (2346076-BS1)							Prepared: 1	1/16/23 Aı	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
urrogate: n-Nonane	58.2		50.0		116	50-200			
Matrix Spike (2346076-MS1)				Source:	E311101-(	)3	Prepared: 1	1/16/23 Aı	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132			
urrogate: n-Nonane	52.9		50.0		106	50-200			
Matrix Spike Dup (2346076-MSD1)				Source:	E311101-(	)3	Prepared: 1	1/16/23 Aı	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	2.21	20	
Gurrogate: n-Nonane	53.0		50.0		106	50-200			



## **QC Summary Data**

WPX Energy - Carlsbad		Project Name:		DX 16 #009					Reported:
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:		1018-0639 ilbert Moreno					11/17/2023 2:25:49PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	<b>\</b>				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2346090-BLK1)							Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	ND	20.0							
LCS (2346090-BS1)							Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)				Source:	E311129-(	)5	Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)				Source:	E311129-(	)5	Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	1030	20.0	250	775	100	80-120	2.23	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 16 #009	
5315 Buena Vista Dr	Project Number:	04018-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 14:25

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Project Inform	nation
Client: WPX E	nergy

**Chain of Custody** 

Page	1	of	1

Received by OCD: 12/20/2023 1:23:39 PM

Client: W	PX Energ	y Permia	n, LLC.			Bill To		T		L	ab U	se O	nly					T	AT		EPA P	rogram
Project: I			· ·			Attention: Jim Raley		Lab	wo	#		Job	Nun	per		1D	2D	3D	St	andard	CWA	SDWA
Project N	lanager:	Gilbert N	loreno	<del></del>		Address: 5315 Buena Vista Dr.		1E.	3111	ÖΟ	<b>)</b>	104	<i>Ols</i>	nber S-OVO	891				5 0	TAT yet		
Address:				·····		City, State, Zip: Carlsbad, NM, 882	20					Anal	ysis a	nd Me	thod							RCRA
City, Stat						Phone: 575-885-7502		Π	Τ.	П	T	T			$\neg$		Π					
Phone: 8	32-541-7	719				Email: jim.raley@dvn.com		1	1 g				1		I						State	
Email: De	von-tear	n@etech	env.com			WO: 21191055		1	ž		İ	l	l	1 1						NM CO	UT AZ	TX
						Incident ID: nAPP2322658221,		]	8	l			l		- 1		l					
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Collected		e Konan		<del></del>			<del></del>	5	g	8	1836	8	8 8					አ :		ĸ	<u> </u>	
Time Sampled	Date Sampled	Matrix	to of Containers	Sample II	)		Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			ВСООС		2005			Remarks	
10:30	11.09.23	S	1			PH06	1	6'								x						
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Addition	al Instruc	tions:																				
				ticity of this s		aware that tampering with or intentionally mislat action. Sampled by: GM	pelling the sampl	e local	tion,											on ice the day t is 6 °C on subse		ed or .
Relinquishe	d by: (Signa	iture)	Date \\[\[//	0/2013	Timo	Received by (Signature)	Date 11/18/2	3	Time	00		Rece	ived	on ice	:		Use / N	Onl	٧			
Relinguishe	d by: (Signa	iture)	Date		Time	Received by: (Signature)	Dato		Time			T1				7	•		7	ГЗ		
Relinquishe	d by: (Signa	iture)	Date		Time	Received by: (Signature)	Date		llue			AVG	Tem	n°C	4							
Samole Mare	nr: S - Sod Se	I - Soled, Se -	Studen A · A	Aqueous, O - (	Other	1	Container '	Type	g - g	lass.					mbe	r gla	55. V	· VO4	\			
						ss other arrangements are made. Hazardou	s samples will	be ret	urnec	to cl	ent o	dispo	sed o	f at the	clien	t exp	ense.	The	report	for the ana	lysis of the	above
						ory with this COC. The liability of the laborat															•	

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envirotech

Printed: 11/15/2023 11:34:29AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/13/23 0	99:00	Work Order ID:	E311106
Phone:	(539) 573-4018	Date Logged In:	11/13/23 1	13:53	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 1	17:00 (4 day TAT)		
Chain of	Custody (COC)					
	e sample ID match the COC?		Yes			
	e number of samples per sampling site location ma	tch the COC	Yes			
	imples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes			
5. Were al	I samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi	•	Yes		<u>Comment</u>	s/Resolution
Sample T	urn Around Time (TAT)					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>looler</u>					
7. Was a s	ample cooler received?		Yes			
8. If yes, v	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 the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample C			<del>-</del>			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers'	9	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab	· · · · · · · · · · · · · · · · · · ·	ners concerca.	105			
	field sample labels filled out with the minimum info	ormation.				
	imple ID?	mation.	Yes			
	ate/Time Collected?		Yes			
Co	ollectors name?		Yes			
Sample P	<u>reservation</u>					
21. Does t	he COC or field labels indicate the samples were pr	reserved?	No			
22. Are sa	mple(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
Multipha	se Sample Matrix					
26. Does t	he sample have more than one phase, i.e., multipha	se?	No			
	does the COC specify which phase(s) is to be analy		NA			
	act Laboratory					
-	mples required to get sent to a subcontract laborato	en 19	No			
	subcontract laboratory specified by the client and it	-	NA	Subcontract Lab: NA		
		i so wilo:	INA	Subcontract Lab: NA		
Client In	struction					

Date

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

# **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311107

Job Number: 04018-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/20/23

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: 11/20/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #009

Workorder: E311107

Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

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## **Sample Summary**

_			·	
ſ	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
ı	5315 Buena Vista Dr	Project Number:	04018-0639	Reported.
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/23 15:59

Client Sample ID	Lab Sample ID N	Matrix	Sampled	Received	Container
PH07 6'	E311107-01A	Soil	11/09/23	11/13/23	Glass Jar, 2 oz.



# Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	04018-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 3:59:43PM

### PH07 6' E311107-01

	L311107-01				
Popult	Reporting	Dilut	ion Propored	Analyzad	Notes
Result	Lillit	Dilui	non Frepared	Anaryzeu	Notes
mg/kg	mg/kg	A	Analyst: RKS		Batch: 2346022
ND	0.0250	1	11/14/23	11/16/23	
ND	0.0250	1	11/14/23	11/16/23	
ND	0.0250	1	11/14/23	11/16/23	
ND	0.0250	1	11/14/23	11/16/23	
ND	0.0500	1	11/14/23	11/16/23	
ND	0.0250	1	11/14/23	11/16/23	
	109 %	70-130	11/14/23	11/16/23	
	96.2 %	70-130	11/14/23	11/16/23	
	97.9 %	70-130	11/14/23	11/16/23	
mg/kg	mg/kg	Α	Analyst: RKS		Batch: 2346022
ND	20.0	1	11/14/23	11/16/23	
	109 %	70-130	11/14/23	11/16/23	
	96.2 %	70-130	11/14/23	11/16/23	
	97.9 %	70-130	11/14/23	11/16/23	
mg/kg	mg/kg	A	Analyst: KM		Batch: 2346075
ND	25.0	1	11/16/23	11/17/23	<u> </u>
ND	50.0	1	11/16/23	11/17/23	
	92.5 %	50-200	11/16/23	11/17/23	
mg/kg	mg/kg	Α	Analyst: BA		Batch: 2346090
31.9	20.0	1	11/16/23	11/16/23	
	ND ND ND ND ND ND ND ND ND ND Mg/kg ND Mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           IO9 %         96.2 %           97.9 %         mg/kg           MD         20.0           109 %         96.2 %           97.9 %         mg/kg           mg/kg         mg/kg           ND         25.0           ND         50.0           92.5 %         mg/kg           mg/kg         mg/kg	Result         Limit         Dilut           mg/kg         mg/kg         A           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           109 %         70-130           96.2 %         70-130           97.9 %         70-130           mg/kg         mg/kg           ND         20.0         1           109 %         70-130           97.9 %         70-130           mg/kg         mg/kg         A           ND         25.0         1           ND         50.0         1           92.5 %         50-200           mg/kg         mg/kg         A	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         11/14/23           ND         0.0250         1         11/14/23           ND         0.0250         1         11/14/23           ND         0.0500         1         11/14/23           ND         0.0250         1         11/14/23           ND         0.0250         1         11/14/23           96.2 %         70-130         11/14/23           96.2 %         70-130         11/14/23           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         11/14/23           96.2 %         70-130         11/14/23           97.9 %         70-130         11/14/23           97.9 %         70-130         11/14/23           97.9 %         70-130         11/14/23           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         11/16/23           ND         50.0         1         11/16/23           mg/kg         mg/kg         Analyst: BA	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         11/14/23         11/16/23           ND         0.0500         1         11/14/23         11/16/23           ND         0.0250         1         11/14/23         11/16/23           ND         0.0250         1         11/14/23         11/16/23           96.2 %         70-130         11/14/23         11/16/23           97.9 %         70-130         11/14/23         11/16/23           109 %         70-130         11/14/23         11/16/23           109 %         70-130         11/14/23         11/16/23           96.2 %         70-130         11/14/23         11/16/23           11/16/23         11/16/23         11/16/23           11/16/23         11/16/23         11/16/23           11/16/23         11/16/23         11/17/2



## **QC Summary Data**

WPX Energy - Carlsbad Project Name: RDX 16 #009 Reported:
5315 Buena Vista Dr Project Number: 04018-0639
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/20/2023 3:59:43PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

	Vo	olatile Organ	ic Compou	ınds by EF	PA 8260E	3		A	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 (2346022-BLK1)							Prepared: 1	1/14/23 Analy	yzed: 11/15/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			
LCS (2346022-BS1)							Prepared: 1	1/14/23 Anal	yzed: 11/15/23
Benzene	2.67	0.0250	2.50		107	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.9	70-130			
Foluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.50	0.0250	2.50		100	70-130			
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130			
Total Xylenes	7.40	0.0250	7.50		98.6	70-130			
Surrogate: Bromofluorobenzene	0.546	- >===	0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			
				Source:	E311088-0	2	Prepared: 1	1/14/23 Anal	yzed: 11/15/23
Matrix Spike (2346022-MS1)					00.2	48-131			
,	2.45	0.0250	2.50	ND	98.2				
Benzene	2.45 2.30	0.0250 0.0250	2.50 2.50	ND ND	98.2 92.0	45-135			
,									
Benzene Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Benzene Ethylbenzene Foluene	2.30 2.24	0.0250 0.0250	2.50 2.50	ND ND	92.0 89.8	45-135 48-130			
Benzene Ethylbenzene Foluene Xylene	2.30 2.24 2.39	0.0250 0.0250 0.0250	2.50 2.50 2.50	ND ND ND	92.0 89.8 95.5	45-135 48-130 43-135			
Benzene Ethylbenzene Foluene D-Xylene D-Mylene	2.30 2.24 2.39 4.68	0.0250 0.0250 0.0250 0.0500	2.50 2.50 2.50 5.00	ND ND ND ND	92.0 89.8 95.5 93.6	45-135 48-130 43-135 43-135			
Benzene Ethylbenzene Foluene D-Xylene D,m-Xylene Fotal Xylenes	2.30 2.24 2.39 4.68 7.07	0.0250 0.0250 0.0250 0.0500	2.50 2.50 2.50 5.00 7.50	ND ND ND ND	92.0 89.8 95.5 93.6 94.2	45-135 48-130 43-135 43-135 43-135			
Benzene Ethylbenzene Foluene D-Xylene D,m-Xylene Fotal Xylenes Surrogate: Bromofluorobenzene	2.30 2.24 2.39 4.68 7.07	0.0250 0.0250 0.0250 0.0500	2.50 2.50 2.50 5.00 7.50	ND ND ND ND	92.0 89.8 95.5 93.6 94.2	45-135 48-130 43-135 43-135 43-135			
Benzene Ethylbenzene Foluene D-Xylene D-Xylene D-Xylene Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4	2.30 2.24 2.39 4.68 7.07 0.554	0.0250 0.0250 0.0250 0.0500	2.50 2.50 2.50 5.00 7.50 0.500	ND ND ND ND ND	92.0 89.8 95.5 93.6 94.2 111 96.4	45-135 48-130 43-135 43-135 43-135 70-130 70-130	Prepared: 1	1/14/23 Anal	yzed: 11/15/23
Benzene Ethylbenzene Foluene D-Xylene D-Mylene Fotal Xylenes Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8	2.30 2.24 2.39 4.68 7.07 0.554	0.0250 0.0250 0.0250 0.0500	2.50 2.50 2.50 5.00 7.50 0.500	ND ND ND ND ND	92.0 89.8 95.5 93.6 94.2 111 96.4 99.2	45-135 48-130 43-135 43-135 43-135 70-130 70-130	Prepared: 1	1/14/23 Analy	yzed: 11/15/23
Benzene Ethylbenzene Toluene D-Xylene D-Xylene D-Xylene D-M-Xylene Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8  Matrix Spike Dup (2346022-MSD1)	2.30 2.24 2.39 4.68 7.07 0.554 0.482 0.496	0.0250 0.0250 0.0250 0.0250 0.0500 0.0250	2.50 2.50 2.50 5.00 7.50 0.500 0.500 0.500	ND ND ND ND ND	92.0 89.8 95.5 93.6 94.2 111 96.4 99.2	45-135 48-130 43-135 43-135 43-135 70-130 70-130	•		yzed: 11/15/23
Benzene Ethylbenzene Foluene D-Xylene D-Xylene D-M-Xylene Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8  Matrix Spike Dup (2346022-MSD1) Benzene	2.30 2.24 2.39 4.68 7.07 0.554 0.482 0.496	0.0250 0.0250 0.0250 0.0500 0.0250	2.50 2.50 2.50 5.00 7.50 0.500 0.500 0.500	ND ND ND ND ND ND ND	92.0 89.8 95.5 93.6 94.2 111 96.4 99.2 E311088-0	45-135 48-130 43-135 43-135 43-135 70-130 70-130 48-131	7.51	23	yzed: 11/15/23
Benzene Ethylbenzene Foluene D-Xylene D-Xylene D-Marine Fotal Xylene Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8  Matrix Spike Dup (2346022-MSD1) Benzene Ethylbenzene	2.30 2.24 2.39 4.68 7.07 0.554 0.482 0.496	0.0250 0.0250 0.0250 0.0500 0.0250 0.0250	2.50 2.50 2.50 5.00 7.50 0.500 0.500 0.500	ND ND ND ND ND ND ND ND	92.0 89.8 95.5 93.6 94.2 111 96.4 99.2 E311088-0 106 99.9	45-135 48-130 43-135 43-135 43-135 70-130 70-130 48-131 45-135	7.51 8.21	23 27	yzed: 11/15/23
Benzene Ethylbenzene Foluene D-Xylene D-Xylene D-Xylene Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8  Matrix Spike Dup (2346022-MSD1) Benzene Ethylbenzene Foluene	2.30 2.24 2.39 4.68 7.07 0.554 0.482 0.496	0.0250 0.0250 0.0250 0.0500 0.0250 0.0250 0.0250 0.0250	2.50 2.50 2.50 5.00 7.50 0.500 0.500 0.500 2.50 2.50 2.50	ND ND ND ND ND ND ND ND ND ND ND ND ND	92.0 89.8 95.5 93.6 94.2 <i>III</i> 96.4 99.2 <b>E311088-0</b> 106 99.9 96.4	45-135 48-130 43-135 43-135 43-135 70-130 70-130 2 48-131 45-135 48-130	7.51 8.21 7.07	23 27 24	yzed: 11/15/23
Benzene Ethylbenzene Foluene D-Xylene D-Xylene D-Xylene Fotal Xylenes Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8  Matrix Spike Dup (2346022-MSD1)  Benzene Ethylbenzene Foluene D-Xylene	2.30 2.24 2.39 4.68 7.07 0.554 0.482 0.496	0.0250 0.0250 0.0250 0.0500 0.0250 0.0250 0.0250 0.0250 0.0250	2.50 2.50 2.50 5.00 7.50 0.500 0.500 0.500 2.50 2.50 2.50 2.5	ND ND ND ND ND ND ND ND ND ND ND ND ND	92.0 89.8 95.5 93.6 94.2 <i>III</i> 96.4 99.2 <b>E311088-0</b> 106 99.9 96.4 103	45-135 48-130 43-135 43-135 43-135 70-130 70-130 22 48-131 45-135 48-130 43-135	7.51 8.21 7.07 7.71	23 27 24 27	yzed: 11/15/23
Benzene Ethylbenzene Foluene D-Xylene D-Xylene D-Xylene Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8  Matrix Spike Dup (2346022-MSD1)  Benzene Ethylbenzene Foluene D-Xylene D-Xylene D-Xylene D-M-Xylene D-M-Xylene	2.30 2.24 2.39 4.68 7.07 0.554 0.482 0.496	0.0250 0.0250 0.0250 0.0500 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250	2.50 2.50 2.50 5.00 7.50 0.500 0.500 0.500 2.50 2.50 2.50 2.5	ND ND ND ND ND ND ND ND ND ND ND ND ND N	92.0 89.8 95.5 93.6 94.2 111 96.4 99.2 E311088-0 106 99.9 96.4 103 101	45-135 48-130 43-135 43-135 70-130 70-130 70-130 48-131 45-135 48-130 43-135	7.51 8.21 7.07 7.71 7.32	23 27 24 27 27	yzed: 11/15/23
Benzene Ethylbenzene Foluene D-Xylene D-Xylene D-Xylene Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8  Matrix Spike Dup (2346022-MSD1)  Benzene Ethylbenzene Foluene D-Xylene D-Xylene D-Xylene D-M-Xylene Fotal Xylenes	2.30 2.24 2.39 4.68 7.07 0.554 0.482 0.496 2.65 2.50 2.41 2.58 5.04 7.62	0.0250 0.0250 0.0250 0.0500 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250	2.50 2.50 2.50 5.00 7.50 0.500 0.500 0.500 2.50 2.50 2.50 2.5	ND ND ND ND ND ND ND ND ND ND ND ND ND N	92.0 89.8 95.5 93.6 94.2 111 96.4 99.2 E311088-0 106 99.9 96.4 103 101 102	45-135 48-130 43-135 43-135 70-130 70-130 70-130 48-131 45-135 48-130 43-135 43-135 43-135	7.51 8.21 7.07 7.71 7.32	23 27 24 27 27	yzed: 11/15/23

Surrogate: Toluene-d8

## **QC Summary Data**

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 3:59:43PM

5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager		018-0639 lbert Moreno				11/	20/2023 3:59:43P
	Non	halogenated (	Organics I	by EPA 801	5D - GI	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 (2346022-BLK1)							Prepared: 1	1/14/23 Ana	lyzed: 11/15/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			
LCS (2346022-BS2)							Prepared: 1	1/14/23 Ana	lyzed: 11/15/23
Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			
Matrix Spike (2346022-MS2)				Source: E	2311088-0	)2	Prepared: 1	1/14/23 Ana	lyzed: 11/15/23
Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			
Matrix Spike Dup (2346022-MSD2)				Source: E	2311088-0	)2	Prepared: 1	1/14/23 Ana	lyzed: 11/15/23
Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	2.39	20	
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			

0.500

99.9

70-130

0.500



# **QC Summary Data**

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 3:59:43PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				J	11/20/2023 3:59:43PI
	Nonha	logenated Or	ganics by l	EPA 8015I	D - DRO	ORO/			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2346075-BLK1)							Prepared: 1	1/16/23 Ar	nalyzed: 11/17/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.8		50.0		89.7	50-200			
LCS (2346075-BS1)							Prepared: 1	1/16/23 Ar	nalyzed: 11/17/23
Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			
Matrix Spike (2346075-MS1)				Source:	E311102-2	27	Prepared: 1	1/16/23 Ar	nalyzed: 11/17/23
Diesel Range Organics (C10-C28)	247	25.0	250	ND	99.0	38-132			
Surrogate: n-Nonane	45.0		50.0		90.1	50-200			
Matrix Spike Dup (2346075-MSD1)				Source:	E311102-2	27	Prepared: 1	1/16/23 Ar	nalyzed: 11/17/23
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.2	38-132	0.202	20	
Surrogate: n-Nonane	44.9		50.0		89.8	50-200			



## **QC Summary Data**

WPX Energy - Carlsbad		Project Name:		DX 16 #009					Reported:
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:		4018-0639 ilbert Moreno					11/20/2023 3:59:43PM
				300.0/9056 <i>A</i>					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 (2346090-BLK1)							Prepared:	11/16/23 A	nalyzed: 11/16/23
Chloride	ND	20.0							
LCS (2346090-BS1)							Prepared:	11/16/23 A	nalyzed: 11/16/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)				Source:	E311129-(	)5	Prepared:	11/16/23 A	nalyzed: 11/16/23
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)				Source:	E311129-(	)5	Prepared:	11/16/23 A	nalyzed: 11/16/23
Chloride	1030	20.0	250	775	100	80-120	2.23	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 16 #009	
5315 Buena Vista Dr	Project Number:	04018-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/23 15:59

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



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**Chain of Custody** 

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	DX 16 #0		ii, LLC.		┥┟	ttention: Jim Raley		Lab	Lab MO# Lob Number					1D 2D 3D Standard			CWA	SDWA				
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	13000 W					ity, State, Zip: Carlsbad, NM, 882	20	1				Analy	rsis a	nd Met	hod							RCRA
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envirotech

Printed: 11/15/2023 11:35:27AM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/13/23	09:00	Work Order ID:	E311107
Phone:	(539) 573-4018	Date Logged In:	11/13/23	13:57	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23	17:00 (4 day TAT)		
Chain of	Custody (COC)					
			37			
	he sample ID match the COC? he number of samples per sampling site location mat	ch the COC	Yes			
	camples dropped off by client or carrier?	en die eee	Yes Yes	Comion Courier		
	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	Carrier: Courier		
	ill samples received within holding time?	ica analyses.	Yes			
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic		103		Comment	s/Resolution
	<u> Furn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	, were custody/security seals intact?		NA			
	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes <u>C</u>			
Sample (	Container					
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a	a trip blank (TB) included for VOC analyses?		NA			
	ion-VOC samples collected in the correct containers?	•	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La	bel					
•	field sample labels filled out with the minimum info	rmation:				
S	ample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	Preservation	10				
	the COC or field labels indicate the samples were pr	eserved?	No			
	ample(s) correctly preserved?	. 1.0	NA			
	filteration required and/or requested for dissolved m	etais?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphas		No			
27. If yes	s, does the COC specify which phase(s) is to be analy	zed?	NA			
Subcont	ract Laboratory					
	amples required to get sent to a subcontract laborator a subcontract laboratory specified by the client and if	-	No NA	Subcontract Lab: NA		
Client I	<u>nstruction</u>					

Date

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311108

Job Number: 01058-0007

Received: 11/13/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 11/22/23

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: 11/22/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #009

Workorder: E311108

Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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**Alexa Michaels** 

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## **Sample Summary**

Γ	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Domonto do
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 10:50

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
PH11 0.5'	E311108-01A Soil	11/09/23	11/13/23	Glass Jar, 2 oz.
PH11 4'	E311108-02A Soil	11/09/23	11/13/23	Glass Jar, 2 oz.
PH11 6'	E311108-03A Soil	11/09/23	11/13/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:50:27AM

### PH11 0.5' E311108-01

	E311100-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	st: RKS		Batch: 2346023
ND	0.0250	1	11/14/23	11/16/23	
ND	0.0250	1	11/14/23	11/16/23	
ND	0.0250	1	11/14/23	11/16/23	
ND	0.0250	1	11/14/23	11/16/23	
ND	0.0500	1	11/14/23	11/16/23	
ND	0.0250	1	11/14/23	11/16/23	
	96.6 %	70-130	11/14/23	11/16/23	
mg/kg	mg/kg	Analy	st: RKS		Batch: 2346023
ND	20.0	1	11/14/23	11/16/23	
	92.4 %	70-130	11/14/23	11/16/23	
mg/kg	mg/kg	Analy	st: JL		Batch: 2346080
ND	25.0	1	11/16/23	11/17/23	
ND	50.0	1	11/16/23	11/17/23	
	89.2 %	50-200	11/16/23	11/17/23	
mg/kg	mg/kg	Analy	st: BA		Batch: 2346090
104	20.0	1	11/16/23	11/16/23	
	mg/kg ND ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result         Reporting           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         20.00           92.4 %         mg/kg           MD         25.0           ND         50.0           89.2 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Analy           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           MD         0.0250         1           Mg/kg         mg/kg         Analy           ND         20.0         1           92.4 %         70-130           mg/kg         mg/kg         Analy           ND         25.0         1           ND         50.0         1           89.2 %         50-200           mg/kg         mg/kg         Analy	Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         11/14/23           ND         0.0250         1         11/14/23           ND         0.0250         1         11/14/23           ND         0.0500         1         11/14/23           ND         0.0250         1         11/14/23           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         11/14/23           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         11/16/23           ND         50.0         1         11/16/23           ND         50.0         1         11/16/23           89.2 %         50-200         11/16/23           mg/kg         Mg/kg         Analyst: BA	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         11/14/23         11/16/23           ND         0.0250         1         11/14/23         11/16/23           ND         0.0250         1         11/14/23         11/16/23           ND         0.0500         1         11/14/23         11/16/23           ND         0.0250         1         11/14/23         11/16/23           ND         0.0250         1         11/14/23         11/16/23           Mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         11/14/23         11/16/23           Mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         11/14/23         11/16/23           Mg/kg         mg/kg         Analyst: JL           ND         25.0         1         11/16/23         11/17/23           ND         50.0         1         11/16/23         11/17/23           ND         50.0         1         11/16/23         11/17/23



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:50:27AM

### PH11 4'

### E311108-02

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: JL		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		92.5 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: BA		Batch: 2346090
Chloride	ND	200	10	11/16/23	11/16/23	<del></del>



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:50:27AM

### PH11 6'

		E311108-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		95.0 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		83.3 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2346090
Chloride	ND	200	10	11/16/23	11/16/23	



Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 4-Bromochlorobenzene-PID

Ethylbenzene Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Matrix Spike Dup (2346023-MSD1)

### **QC Summary Data**

RDX 16 #009 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/22/2023 10:50:27AM **Volatile Organics by EPA 8021B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2346023-BLK1) Prepared: 11/14/23 Analyzed: 11/16/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.78 8.00 97.3 70-130 LCS (2346023-BS1) Prepared: 11/14/23 Analyzed: 11/16/23 5.12 102 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.08 0.0250 5.00 102 70-130 5.11 0.0250 5.00 102 70-130 Toluene 102 o-Xylene 5.10 0.0250 5.00 70-130 10.4 10.0 104 70-130 0.0500 p.m-Xvlene 103 70-130 15.4 15.0 Total Xylenes 0.0250 8.00 97.7 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.82 Matrix Spike (2346023-MS1) Source: E311089-03 Prepared: 11/14/23 Analyzed: 11/16/23 5.06 0.0250 5.00 ND 54-133 Benzene ND 61-133 Ethylbenzene 5.00 0.0250 5.00 100 Toluene 5.05 0.0250 5.00 ND 101 61-130 5.00 ND 100 63-131 5.00 0.0250 o-Xylene p,m-Xylene 10.2 0.0500 10.0 ND 102 63-131 15.2 0.0250 15.0 ND 63-131 Total Xylenes

8.00

5.00

5.00

5.00

5.00

10.0

15.0

8.00

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

70-130

54-133

61-133

61-130

63-131

63-131

63-131

70-130

2.96

3.04

2.96

3.37

3.06

3.16

Source: E311089-03

103

104

103

105

104

97.0

ND

ND

ND

ND

ND

ND

7.79

5.21

5.15

5.20

5.17

10.5

15.7

7.76



Prepared: 11/14/23 Analyzed: 11/16/23

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# **QC Summary Data**

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:50:27AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				11	/22/2023 10:50:27AN
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2346023-BLK1)							Prepared: 1	1/14/23 An	alyzed: 11/16/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			
LCS (2346023-BS2)							Prepared: 1	1/14/23 An	alyzed: 11/16/23
Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			
Matrix Spike (2346023-MS2)				Source:	E311089-0	)3	Prepared: 1	1/14/23 An	alyzed: 11/16/23
Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			
Matrix Spike Dup (2346023-MSD2)				Source:	E311089-0	)3	Prepared: 1	1/14/23 An	alyzed: 11/16/23
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.3	70-130	2.41	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	70-130			

# **QC Summary Data**

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:50:27AM

Carlsbad NM, 88220		Project Manage	r: Gı	lbert Moreno				11	/22/2023 10:50:27A
	Nonha	logenated Or	ganics by	EPA 8015I	D - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2346080-BLK1)							Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.7		50.0		95.5	50-200			
LCS (2346080-BS1)							Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	235	25.0	250		94.0	38-132			
Surrogate: n-Nonane	46.3		50.0		92.6	50-200			
Matrix Spike (2346080-MS1)				Source:	E311108-0	03	Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	45.7		50.0		91.5	50-200			
Matrix Spike Dup (2346080-MSD1)				Source:	E311108-0	03	Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132	3.56	20	
Surrogate: n-Nonane	46.4		50.0		92.7	50-200			



Chloride

## **QC Summary Data**

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		DX 16 #009 1058-0007					Reported:	
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					11/22/2023 10:50:27AI	М
		Anions	by EPA	300.0/9056 <i>A</i>					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 (2346090-BLK1)							Prepared:	11/16/23	Analyzed: 11/16/23	
Chloride	ND	20.0								
LCS (2346090-BS1)							Prepared:	11/16/23	Analyzed: 11/16/23	
Chloride	253	20.0	250		101	90-110				
Matrix Spike (2346090-MS1)				Source:	E311129-(	)5	Prepared:	11/16/23	Analyzed: 11/16/23	
Chloride	1050	20.0	250	775	110	80-120				
Matrix Spike Dup (2346090-MSD1)				Source:	E311129-(	)5	Prepared:	11/16/23	Analyzed: 11/16/23	

250

20.0

1030

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80-120

2.23

#### QC Summary Report Comment:

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



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## **Definitions and Notes**

ſ	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
١	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 10:50

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



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Released to Imaging: 3/7/2024 4:39:47 PM

**Project Information** 



envirotech

Printed: 11/15/2023 11:35:55AM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/13/23	09:00	Work Order ID:	E311108
Phone:	(539) 573-4018	Date Logged In:	11/13/23	14:00	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23	17:00 (4 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Courie	<u>er</u>	
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucssi	•	Yes		<u>Commen</u>	ts/Resolution
Sample T	<u> Turn Around Time (TAT)</u>					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (	<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
	, were custody/security seals intact?		NA			
12. Was th	e sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes			
	Container _		_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lal	** *	ners concercu.	105			
	field sample labels filled out with the minimum info	ormation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes			
C	ollectors name?		Yes			
	<u>Preservation</u>					
21. Does	the COC or field labels indicate the samples were p	reserved?	No			
	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved r	netals?	No			
Multipha	se Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	ise?	No			
27. If yes	, does the COC specify which phase(s) is to be analy	yzed?	NA			
Subconti	act Laboratory					
	amples required to get sent to a subcontract laborate	nrv?	No			
	subcontract laboratory specified by the client and i	-	NA	Subcontract Lab: NA		
	• • •			Subcontract Eur. 1411		
Chent II	<u>istruction</u>					

Date

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311109

Job Number: 01058-0007

Received: 11/13/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 11/22/23

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: 11/22/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #009

Workorder: E311109

Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

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### **Sample Summary**

_			<u> </u>	
ſ	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
l	5315 Buena Vista Dr	Project Number:	01058-0007	Keporteu.
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 10:53

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
PH12 0.5'	E311109-01A Soil	11/09/23	11/13/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:53:54AM

### PH12 0.5' E311109-01

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: F	RKS		Batch: 2346022
Benzene	ND	0.0250	1		11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1		11/14/23	11/16/23	
Toluene	ND	0.0250	1		11/14/23	11/16/23	
o-Xylene	ND	0.0250	1		11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1		11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1		11/14/23	11/16/23	
Surrogate: Bromofluorobenzene		108 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8		97.9 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: F	RKS		Batch: 2346022
Gasoline Range Organics (C6-C10)	ND	20.0	1		11/14/23	11/16/23	
Surrogate: Bromofluorobenzene		108 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8		97.9 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: k	KM		Batch: 2346079
Diesel Range Organics (C10-C28)	ND	25.0	1		11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1		11/16/23	11/16/23	
Surrogate: n-Nonane		111 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: E	BA		Batch: 2346090
Chloride	14400	400	20	`	11/16/23	11/16/23	



## **QC Summary Data**

WPX Energy - Carlsbad Project Name: RDX 16 #009 Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/22/2023 10:53:54AM

Carlsbad NM, 88220		Project Manage	r: Gi	ilbert Moreno	1			11/2.	2/2023 10:53:54A
	V	olatile Organ	ic Compo	unds by EI	PA 82601	В		A	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 (2346022-BLK1)							Prepared: 11	1/14/23 Analy	zed: 11/15/23
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	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			
LCS (2346022-BS1)							Prepared: 11	1/14/23 Analy	zed: 11/15/23
Benzene	2.67	0.0250	2.50		107	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.9	70-130			
Toluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.50	0.0250	2.50		100	70-130			
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130			
Total Xylenes	7.40	0.0250	7.50		98.6	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			
Matrix Spike (2346022-MS1)				Source:	E311088-	02	Prepared: 11	1/14/23 Analy	zed: 11/15/23
Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.24	0.0250	2.50	ND	89.8	48-130			
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135			
p,m-Xylene	4.68	0.0500	5.00	ND	93.6	43-135			
Total Xylenes	7.07	0.0250	7.50	ND	94.2	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			
Matrix Spike Dup (2346022-MSD1)				Source:	E311088-	02	Prepared: 1	1/14/23 Analy	zed: 11/15/23
Benzene	2.65	0.0250	2.50	ND	106	48-131	7.51	23	
Ethylbenzene	2.50	0.0250	2.50	ND	99.9	45-135	8.21	27	
Toluene	2.41	0.0250	2.50	ND	96.4	48-130	7.07	24	
o-Xylene	2.58	0.0250	2.50	ND	103	43-135	7.71	27	
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135	7.32	27	
Total Xylenes	7.62	0.0250	7.50	ND	102	43-135	7.45	27	
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			

0.500

97.8

70-130

0.489

Surrogate: Toluene-d8

 ${\it Surrogate: Bromofluor obenzene}$ 

Surrogate: Toluene-d8

## **QC Summary Data**

WPX Energy - CarlsbadProject Name:RDX 16 #009Reported:5315 Buena Vista DrProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno11/22/2023 10:53:54AM

	Non	halogenated	Organics l	by EPA 80	15D - G	RO		Α	Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2346022-BLK1)						]	Prepared: 1	1/14/23 Analy	/zed: 11/15/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			
LCS (2346022-BS2)						]	Prepared: 1	1/14/23 Analy	zed: 11/15/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0	105 70-130
Surrogate: Bromofluorobenzene	0.549		0.500	110 70-130
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500	96.4 70-130
Surrogate: Toluene-d8	0.495		0.500	98.9 70-130
Matrix Spike (2346022-MS2)				<b>Source: E311088-02</b> Prepared: 11/14/23 Analyzed: 11/15/23
Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND 109 70-130

0.500

0.559

0.500

70-130

70-130

112

99.9

Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130				
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130				
Matrix Spike Dup (2346022-MSD2)				Source:	E311088-0	)2	Prepared: 11	/14/23 A	analyzed: 11/15/23	
Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	2.39	20		
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130				
Surrogate: 1.2-Dichloroethane-d4	0.474		0.500		94.8	70-130				

0.500

## **QC Summary Data**

WPX Energy - CarlsbadProject Name:RDX 16 #009Reported:5315 Buena Vista DrProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno11/22/2023 10:53:54AM

Carisbad NM, 88220		Project Manage	r: G1.	ibert Moreno					11/22/2023 10:53:54A
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2346079-BLK1)							Prepared: 1	1/16/23 A	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	54.3		50.0		109	50-200			
.CS (2346079-BS1)							Prepared: 1	1/16/23 A	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	300	25.0	250		120	38-132			
urrogate: n-Nonane	59.0		50.0		118	50-200			
Matrix Spike (2346079-MS1)				Source:	E311128-0	)3	Prepared: 1	1/16/23 A	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	308	25.0	250	ND	123	38-132			
urrogate: n-Nonane	59.9		50.0		120	50-200			
Matrix Spike Dup (2346079-MSD1)				Source:	E311128-0	)3	Prepared: 1	1/16/23 A	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	301	25.0	250	ND	120	38-132	2.50	20	
urrogate: n-Nonane	56.8		50.0		114	50-200			



Matrix Spike Dup (2346090-MSD1)

Chloride

1030

## **QC Summary Data**

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number Project Manager	: 01	DX 16 #009 .058-0007 ilbert Moreno				11	Reported: /22/2023 10:53:54AM
		Anions	by EPA 3	300.0/9056 <i>A</i>	<b>\</b>				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit	Notes
Blank (2346090-BLK1)							Prepared: 1	1/16/23 Ana	alyzed: 11/16/23
Chloride	ND	20.0							
LCS (2346090-BS1)							Prepared: 1	1/16/23 Ana	alyzed: 11/16/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)				Source:	E311129-0	)5	Prepared: 1	1/16/23 An	alyzed: 11/16/23
Chloride	1050	20.0	250	775	110	80-120			

250

20.0

Source: E311129-05

100

80-120

2.23

#### QC Summary Report Comment:

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



Prepared: 11/16/23 Analyzed: 11/16/23

20

## **Definitions and Notes**

ſ	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
١	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 10:53

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



						Bill To					1 :	ab 114	se Or	ılv			Г		T	AT		EPA	Progra	am
	PX Energ		n, LLC.						Lab	WOR				Num	ber		1D	2D	3D		andard	CWA		<b>AW</b> C
	RDX 16 #0					Attention: Jim Raley	.,		Lab	3111	<b>^</b>		104	NIX	-00			1	1		day IAT		I	
	/lanager:					Address: 5315 Buena Vista Dr.	220		كمك	JETE	ע־1		Anal	<u>v 10</u>	nd M	ethor	 d			A	T		R	CRA
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City, Stat	e, Zip_Oc	iessa,TX,	79765			Phone: 575-885-7502				21		l		l						l		State		
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Time Sampled	Dote Sampled	Matrix	No of Containers	Sample ID	)		La Nun	per	Depth(ft.)	три GRO/DRO/ORO by 8015	STEX <b>by</b> 8021	VOC by 8260	Metals 6010	Chloride			ВСВОС		ggo			Remark	<b></b>	
11:20	11.09.23	S	1			PH12			0.5'								×							
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															np °C		<u> </u>	•						
Sample Ma	rtrux: 5 · Soil,	Sci - Scoled, Sq	g - Siudge, A	· Aqueous, O ·	Other		Cont	aine	т Тур	e: g -	glass	, P - I	poly/	plasti	c, ag	- aml	ber g	lass,	v - V0	)A				
Note: Sar	nples are di	scarded 30	days after	results are re	ported un	less other arrangements are made. Hazar	dous samp	es wi	l be r	eturne	d to	lient	or disp	posed	of at t	he cli	ent e	apens	e. The	e repo	ort for the a	nalysis of	the abs	ove



Printed: 11/15/2023 11:36:42AM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/13/23 (	9:00		Work Order ID:	E311109
Phone:	(539) 573-4018	Date Logged In:	11/13/23 1	4:05		Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:		7:00 (4 day TAT)		86	
	Custody (COC)		••				
	he sample ID match the COC?	tak tha COC	Yes				
	he number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: <u>Co</u>	<u>ourier</u>		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi	•	Yes	_		<u>Comment</u>	s/Resolution
	<u>Furn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (							
	sample cooler received?		Yes				
•	was cooler received in good condition?		Yes				
	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling	e received w/i 15	Yes				
13. If no	visible ice, record the temperature. Actual sample	temperature: 4°	<u>C</u>				
Sample (	Container_						
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers		Yes				
19. Is the	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field La							
	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes	L			
	Oate/Time Collected? Collectors name?		Yes				
	Preservation		Yes				
	the COC or field labels indicate the samples were pr	reserved?	No				
	ample(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved n	netals?	No				
Multiph	ase Sample Matrix						
	the sample have more than one phase, i.e., multipha	se?	No				
	, does the COC specify which phase(s) is to be analy		NA				
		yzeu:	NA				
	ract Laboratory						
	amples required to get sent to a subcontract laborato	-	No				
29. Was a	a subcontract laboratory specified by the client and i	t so who?	NA	Subcontract Lab:	NA		
Client I	<u>nstruction</u>						

Date

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311110

Job Number: 04018-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/17/23

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: 11/17/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #009

Workorder: E311110

Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

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Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

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## **Sample Summary**

_				
ſ	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
l	5315 Buena Vista Dr	Project Number:	04018-0639	Reported.
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 15:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH12 4'	E311110-01A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	04018-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:02:57PM

### PH12 4' E311110-01

		L511110-01					
Analyte	Result	Reporting Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RI	KS		Batch: 2346022
Benzene	ND	0.0250	1	-	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1		11/14/23	11/16/23	
Toluene	ND	0.0250	1		11/14/23	11/16/23	
o-Xylene	ND	0.0250	1		11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1		11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1		11/14/23	11/16/23	
Surrogate: Bromofluorobenzene		109 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8		97.5 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RI	KS		Batch: 2346022
Gasoline Range Organics (C6-C10)	ND	20.0	1		11/14/23	11/16/23	
Surrogate: Bromofluorobenzene		109 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8		97.5 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL	,		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1		11/16/23	11/17/23	<u> </u>
Oil Range Organics (C28-C36)	ND	50.0	1		11/16/23	11/17/23	
Surrogate: n-Nonane		85.1 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: B	Α		Batch: 2346090
Chloride	14700	400	20	)	11/16/23	11/17/23	



RDX 16 #009 WPX Energy - Carlsbad Project Name: Reported: Project Number: 5315 Buena Vista Dr 04018-0639 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/17/2023 3:02:57PM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2346022-BLK1) Prepared: 11/14/23 Analyzed: 11/15/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.544 0.500 109 70-130 Surrogate: 1,2-Dichloroethane-d4 0.479 0.500 95.7 70-130 0.500 97.8 70-130 Surrogate: Toluene-d8 0.489 LCS (2346022-BS1) Prepared: 11/14/23 Analyzed: 11/15/23 2.67 0.0250 2.50 107 70-130 Benzene 2.47 2.50 98.9 70-130 Ethylbenzene 0.0250 2.39 0.0250 2.50 95.8 70-130 2.50 70-130 0.0250 2.50 100 o-Xylene 4.89 5.00 97.8 70-130 p,m-Xylene 0.0500 7.40 0.0250 7.50 98.6 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.546 0.500 109 70-130 0.500 97.0 70-130 Surrogate: 1,2-Dichloroethane-d4 0.485 70-130 Surrogate: Toluene-d8 0.484 0.500 Matrix Spike (2346022-MS1) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23 48-131 2.45 0.0250 2.50 ND 98.2 45-135 Ethylbenzene 2.30 0.0250 2.50 ND 92.0 ND 48-130 Toluene 2.24 0.0250 2.50 89.8 2.39 0.0250 2.50 ND 95.5 43-135 o-Xylene 4.68 5.00 ND 93.6 43-135 p,m-Xylene 0.0500 Total Xylenes 7.07 0.0250 7.50 ND 94.2 43-135 Surrogate: Bromofluorobenzene 0.554 0.500 111 70-130 0.500 96.4 70-130 Surrogate: 1,2-Dichloroethane-d4 0.482 0.500 99.2 70-130 0.496 Surrogate: Toluene-d8 Matrix Spike Dup (2346022-MSD1) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23 2.65 0.0250 2.50 ND 106 48-131 7.51 23 2.50 0.0250 2.50 ND 99.9 45-135 8.21 27 Ethylbenzene ND 48-130 7.07 24 2.41 2.50 96.4 Toluene 0.0250 o-Xylene 2.58 0.0250 2.50 ND 103 43-135 7.71 27

5.00

7.50

0.500

0.500

0.500

0.0500

0.0250

5.04

7.62

0.552

0.467

0.489

ND

ND

101

102

110

93.3

43-135

43-135

70-130

70-130

70-130

7.32

7.45



27

27

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

WPX Energy - Carlsbad Project Name: RDX 16 #009 Reported:
5315 Buena Vista Dr Project Number: 04018-0639
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/17/2023 3:02:57PM

	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: RKS	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2346022-BLK1)							Prepared: 11	1/14/23 Analy	zed: 11/15/23	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130				
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130				
LCS (2346022-BS2)							Prepared: 1	1/14/23 Analy	zed: 11/15/23	
Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130				
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130				
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130				
Matrix Spike (2346022-MS2)				Source:	E311088-0	)2	Prepared: 1	1/14/23 Analy	zed: 11/15/23	
Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130				
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130				

Surroguie. Bromojiuorovenzene	0.559		0.500		112	70 150				
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130				
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130				
Matrix Spike Dup (2346022-MSD2)				Source:	E311088-0	)2	Prepared: 11	1/14/23 A	analyzed: 11/15/23	
Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	2.39	20		
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130				
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130				

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:02:57PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				1	1/17/2023 3:02:57P
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2346080-BLK1)							Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	47.7		50.0		95.5	50-200			
LCS (2346080-BS1)							Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	235	25.0	250		94.0	38-132			
urrogate: n-Nonane	46.3		50.0		92.6	50-200			
Matrix Spike (2346080-MS1)				Source:	E311108-0	)3	Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
urrogate: n-Nonane	45.7		50.0		91.5	50-200			
Matrix Spike Dup (2346080-MSD1)				Source:	E311108-0	)3	Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132	3.56	20	
Gurrogate: n-Nonane	46.4		50.0		92.7	50-200			

WPX Energy - Carlsbad		Project Name:		DX 16 #009					Reported:
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:		4018-0639 filbert Moreno					11/17/2023 3:02:57PM
		Anions	by EPA	300.0/9056 <i>A</i>					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 (2346090-BLK1)							Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	ND	20.0							
LCS (2346090-BS1)							Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)				Source:	E311129-(	)5	Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)				Source:	E311129-(	)5	Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	1030	20.0	250	775	100	80-120	2.23	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 16 #009	
5315 Buena Vista Dr	Project Number:	04018-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 15:02

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



**Project Information** 

Received by OCD: 12/20/2023 1:23:39 PM



envirotech

envirotech Inc.

Printed: 11/15/2023 11:37:05AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/13/23 (	99:00	Work Order ID:	E311110
Phone:	(539) 573-4018	Date Logged In:	11/13/23 1	4:07	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23	17:00 (4 day TAT)		
Chain of	Custody (COC)					
1. Does th	ne sample ID match the COC?		Yes			
2. Does th	ne number of samples per sampling site location ma	tch the COC	Yes			
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: Cour	rier_	
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes			
5. Were al	Il samples received within holding time?		Yes			
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi				Comment	s/Resolution
Sample T	urn Around Time (TAT)	-				
	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
7. Was a s	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
	were custody/security seals intact?		NA			
· ·	e sample received on ice? If yes, the recorded temp is 4°C.	ie 6°+2°C	Yes			
12. ((4)	Note: Thermal preservation is not required, if samples ar		103			
	minutes of sampling					
13. If no v	visible ice, record the temperature.  Actual sample	temperature: 4°0	<u> </u>			
Sample C	<u>Container</u>					
14. Are ac	queous VOC samples present?		No			
15. Are V	OC samples collected in VOA Vials?		NA			
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a	trip blank (TB) included for VOC analyses?		NA			
18. Are no	on-VOC samples collected in the correct containers	?	Yes			
19. Is the a	appropriate volume/weight or number of sample contain	ners collected?	Yes			
Field Lab	<u>oel</u>					
20. Were	field sample labels filled out with the minimum info	ormation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes			
	ollectors name?		Yes			
	<u>Preservation</u> the COC or field labels indicate the samples were p	reserved?	No			
	ample(s) correctly preserved?	reserved:	NA			
	filteration required and/or requested for dissolved n	netals?	No			
	1	ilouis.	110			
	se Sample Matrix the sample have more than one phase, i.e., multipha		».T			
	, does the COC specify which phase(s) is to be analy		No			
•		yzeu?	NA			
	act Laboratory					
	amples required to get sent to a subcontract laborato	-	No			
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA	Subcontract Lab: NA	A	
Client In	<u>istruction</u>					

Date

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

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311111

Job Number: 04018-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/17/23

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: 11/17/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #009

Workorder: E311111

Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

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Cell: 775-287-1762

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Envirotech Web Address: www.envirotech-inc.com

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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

#### **Sample Summary**

Γ	WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
l	5315 Buena Vista Dr	Project Number:	04018-0639	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 15:00

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH12 6'	E311111-01A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.



WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	04018-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:00:38PM

#### PH12 6' E311111-01

Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Analyte	Result	Limit	Dilut	ion Frepared	Anaryzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2346022
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene		111 %	70-130	11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	11/14/23	11/16/23	
Surrogate: Toluene-d8		98.4 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: RKS		Batch: 2346022
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene		111 %	70-130	11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	11/14/23	11/16/23	
Surrogate: Toluene-d8		98.4 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: JL		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		93.7 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: BA		Batch: 2346090
Chloride	960	200	10	11/16/23	11/17/23	



RDX 16 #009 WPX Energy - Carlsbad Project Name: Reported: Project Number: 5315 Buena Vista Dr 04018-0639 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/17/2023 3:00:38PM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2346022-BLK1) Prepared: 11/14/23 Analyzed: 11/15/23 ND 0.0250 ND 0.0250 Ethylbenzene Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.544 0.500 109 70-130 Surrogate: 1,2-Dichloroethane-d4 0.479 0.500 95.7 70-130 0.500 97.8 70-130 Surrogate: Toluene-d8 0.489 LCS (2346022-BS1) Prepared: 11/14/23 Analyzed: 11/15/23 2.67 0.0250 2.50 107 70-130 Benzene 2.47 2.50 98.9 70-130 Ethylbenzene 0.0250 Toluene 2.39 0.0250 2.50 95.8 70-130 2.50 100 70-130 o-Xylene 0.0250 2.50 97.8 4.89 5.00 70-130 p,m-Xylene 0.0500 7.40 0.0250 7.50 98.6 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.546 0.500 109 70-130 0.500 97.0 70-130 Surrogate: 1,2-Dichloroethane-d4 0.485 70-130 Surrogate: Toluene-d8 0.484 0.500 Matrix Spike (2346022-MS1) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23 48-131 2.45 0.0250 2.50 ND 98.2 ND 45-135 Ethylbenzene 2.30 0.0250 2.50 92.0 ND 48-130 Toluene 2.24 0.0250 2.50 89.8

2.39

4.68

7.07

0.554

0.482

0.496

2.65

2.50

2.41

2.58

5.04

7.62

0.552

0.467

0.489

0.0250

0.0500

0.0250

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

2.50

5.00

7.50

0.500

0.500

0.500

2.50

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

ND

ND

ND

ND

ND

ND

ND

ND

ND

95.5

93.6

94.2

111

96.4

99.2

106

99.9

96.4

103

101

102

110

93.3

Source: E311088-02

43-135

43-135

43-135

70-130

70-130

70-130

48-131

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

7.51

8.21

7.07

7.71

7.32

7.45

Prepared: 11/14/23 Analyzed: 11/15/23

23

27

24

27

27

27

o-Xylene

p,m-Xylene

Total Xylenes

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

Matrix Spike Dup (2346022-MSD1)

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

0.474

0.500

# **QC Summary Data**

RDX 16 #009 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 04018-0639

S315 Buena Vista Dr Carlsbad NM, 88220		Project Number Project Manager		018-0639 lbert Moreno					11/17/2023 3:00:38P			
Nonhalogenated Organics by EPA 8015D - GRO  Analyst: RKS												
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2346022-BLK1)							Prepared: 1	1/14/23 A	nalyzed: 11/15/23			
Gasoline Range Organics (C6-C10)	ND	20.0										
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130						
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130						
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130						
LCS (2346022-BS2)							Prepared: 1	1/14/23 A	analyzed: 11/15/23			
Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130						
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130						
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130						
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130						
Matrix Spike (2346022-MS2)				Source: 1	E <b>311088-</b> (	)2	Prepared: 1	1/14/23 A	analyzed: 11/15/23			
Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130						
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130						
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130						
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130						
Matrix Spike Dup (2346022-MSD2)				Source: 1	E <b>311088-</b> (	)2	Prepared: 1	1/14/23 A	analyzed: 11/15/23			
Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	2.39	20				
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130						

0.500

0.500

70-130

70-130

94.8

99.9

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	·
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:00:38PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno					11/17/2023 3:00:38PM	
Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst: JL										
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2346080-BLK1)							Prepared: 1	1/16/23 A	nalyzed: 11/16/23	
Diesel Range Organics (C10-C28)	ND	25.0								
Dil Range Organics (C28-C36)	ND	50.0								
Surrogate: n-Nonane	47.7		50.0		95.5	50-200				
LCS (2346080-BS1)							Prepared: 1	1/16/23 A	nalyzed: 11/16/23	
Diesel Range Organics (C10-C28)	235	25.0	250		94.0	38-132				
Surrogate: n-Nonane	46.3		50.0		92.6	50-200				
Matrix Spike (2346080-MS1)				Source:	E311108-0	03	Prepared: 1	1/16/23 A	nalyzed: 11/16/23	
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132				
Surrogate: n-Nonane	45.7		50.0		91.5	50-200				
Matrix Spike Dup (2346080-MSD1)				Source:	E311108-0	03	Prepared: 1	1/16/23 A	nalyzed: 11/16/23	
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132	3.56	20		
Surrogate: n-Nonane	46.4		50.0		92.7	50-200				



WPX Energy - Carlsbad		Project Name:		DX 16 #009					Reported:		
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:		4018-0639 filbert Moreno					11/17/2023 3:00:38PM		
		Anions	by EPA	300.0/9056 <i>A</i>	<b>\</b>				Analyst: BA		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2346090-BLK1)							Prepared:	11/16/23	Analyzed: 11/16/23		
Chloride	ND	20.0									
LCS (2346090-BS1)							Prepared:	11/16/23	Analyzed: 11/16/23		
Chloride	253	20.0	250		101	90-110					
Matrix Spike (2346090-MS1)				Source:	E311129-(	)5	Prepared:	11/16/23	Analyzed: 11/16/23		
Chloride	1050	20.0	250	775	110	80-120					
Matrix Spike Dup (2346090-MSD1)				Source:	E311129-(	)5	Prepared:	11/16/23	Analyzed: 11/16/23		
Chloride	1030	20.0	250	775	100	80-120	2.23	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 16 #009	
-	5315 Buena Vista Dr	Project Number:	04018-0639	Reported:
-	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 15:00

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Project Information
Client: WPX Energy
Client: WPX Energy Project: RDX 16 #00

Chain	of	Cus	tody
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Page	1	of	1
rage		v.	

Received by OCD: 12/20/2023 1:23:39 PM

Chart. WGV From Permian IIC Bill To								Lad Ose Only							rogram								
	lient: WPX Energy Permian, LLC.  Roject: RDX 16 #009  Attention: Jim Raley								lab WO#			Job Number				ID	2D	3D	St	andard	CWA	SDWA	
			<del></del>			Address: 5315 Buena Vista Dr.				E3IIII			04018-068				$\neg$			50	Jay TAT		
Project P						City, State, Zip: Carlsbad, NM, 88220				- 111			Analysis and Metho						***				RCRA
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envirotech

envirotech Inc.

Printed: 11/15/2023 11:38:00AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/13/23	09:00		Work Order ID:	E311111
Phone:	(539) 573-4018	Date Logged In:	11/13/23	14:10		Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23	17:00 (4 day TAT)			
Chain o	f Custody (COC)						
1. Does	the sample ID match the COC?		Yes				
	the number of samples per sampling site location mate	h the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Co	ourier		
4. Was tl	ne COC complete, i.e., signatures, dates/times, request	ed analyses?	Yes		<del> </del>		
5. Were	all samples received within holding time?	•	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion			-		Comment	s/Resolution
<b>Sample</b>	Turn Around Time (TAT)						
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample	<u>Cooler</u>						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was tl	ne sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If ye	s, were custody/security seals intact?		NA				
	he sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample t	received w/i 15	Yes				
	•	emperature. 4	<u>c</u>				
	Container		N.T.				
	aqueous VOC samples present?		No NA				
	VOC samples collected in VOA Vials?						
	e head space less than 6-8 mm (pea sized or less)?		NA NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?	114 - 40	Yes				
	appropriate volume/weight or number of sample contained	ers collected?	Yes				
Field La							
	e field sample labels filled out with the minimum infor Sample ID?	mation:	Yes				
	Date/Time Collected?		Yes	L			
	Collectors name?		Yes				
Sample	<b>Preservation</b>						
21. Does	s the COC or field labels indicate the samples were pre	served?	No				
22. Are	sample(s) correctly preserved?		NA				
	o filteration required and/or requested for dissolved me	etals?	No				
Multiph	ase Sample Matrix						
	the sample have more than one phase, i.e., multiphase	?	No				
	s, does the COC specify which phase(s) is to be analyz		NA				
			1411				
	ract Laboratory samples required to get sent to a subcontract laboratory	-n	NI.				
			No	0.1 4 47.1	3.7.4		
	a subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab:	: NA		
Client l	<u>Instruction</u>						
							_

Date

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

Report to:
Gilbert Moreno







5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

# **Analytical Report**

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E311101

Job Number: 01058-0007

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/20/23

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: 11/20/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 16 #008

Workorder: E311101

Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

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Laboratory Administrator Office: 505-632-1881

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**Alexa Michaels** 

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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#### **Sample Summary**

Γ	WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Dt-d-
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/23 13:43

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
PH13 0.5'	E311101-01A Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
PH13 1'	E311101-02A Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
PH14 0.5'	E311101-03A Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
PH14 1'	E311101-04A Soil	11/09/23	11/13/23	Glass Jar, 4 oz.



WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 1:43:42PM

#### PH13 0.5' E311101-01

		E311101-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		96.7 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2346076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane		105 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2346094
Chloride	94.7	20.0	1	11/16/23	11/18/23	

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 1:43:42PM

#### PH13 1'

#### E311101-02

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		94.8 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.0 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2346076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane		102 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2346094
Chloride	ND	200	10	11/16/23	11/18/23	•



WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 1:43:42PM

# PH14 0.5'

		E311101-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2346076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane		104 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2346094
Chloride	107	20.0	1	11/16/23	11/18/23	



WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 1:43:42PM

#### PH14 1'

		E311101-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID		95.7 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2346076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane		105 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2346094
Chloride	ND	200	10	11/16/23	11/18/23	



		QC Si	umm	ary Data	l				
WPX Energy - Carlsbad		Project Name:	R	DX 16 #008					Reported:
5315 Buena Vista Dr		Project Number:	0	1058-0007					
Carlsbad NM, 88220		Project Manager:	G	ilbert Moreno					11/20/2023 1:43:42PN
		Volatile O	rganics	by EPA 8021	B				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 (2346023-BLK1)							Prepared: 1	1/14/23 <i>A</i>	Analyzed: 11/16/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			
LCS (2346023-BS1)							Prepared: 1	1/14/23 A	Analyzed: 11/16/23
Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	5.08	0.0250	5.00		102	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.10	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.7	70-130			
Matrix Spike (2346023-MS1)				Source: F	E311089-	03	Prepared: 1	1/14/23 A	Analyzed: 11/16/23
Benzene	5.06	0.0250	5.00	ND	101	54-133			
Ethylbenzene	5.00	0.0250	5.00	ND	100	61-133			
Toluene	5.05	0.0250	5.00	ND	101	61-130			
p-Xylene	5.00	0.0250	5.00	ND	100	63-131			
o,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			
Matrix Spike Dup (2346023-MSD1)				Source: F	E311089-	03	Prepared: 1	1/14/23 A	Analyzed: 11/16/23
Benzene	5.21	0.0250	5.00	ND	104	54-133	2.96	20	

5.15

5.20

5.17

10.5

15.7

7.76

0.0250

0.0250

0.0250

0.0500

0.0250

5.00

5.00

5.00

10.0

15.0

ND

ND

ND

ND

ND

103

104

103

105

104

97.0

61-133

61-130

63-131

63-131

63-131

70-130

3.04

2.96

3.37

3.06

3.16

20

20

20

20

20



Ethylbenzene

Toluene

o-Xylene

p,m-Xylene Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 1:43:42PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno	•			1	1/20/2023 1:43:42PM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2346023-BLK1)							Prepared: 1	1/14/23 An	alyzed: 11/16/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			
LCS (2346023-BS2)							Prepared: 1	1/14/23 An	alyzed: 11/16/23
Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			
Matrix Spike (2346023-MS2)				Source:	E311089-0	)3	Prepared: 1	1/14/23 An	alyzed: 11/16/23
Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			
Matrix Spike Dup (2346023-MSD2)				Source:	E311089-0	)3	Prepared: 1	1/14/23 An	alyzed: 11/16/23
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.3	70-130	2.41	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	70-130			



WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 1:43:42PM

Carlsbad NM, 88220		Project Manager	r: G1	lbert Moreno				1	1/20/2023 1:43:42PI
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2346076-BLK1)							Prepared: 1	1/16/23 Ar	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	53.3		50.0		107	50-200			
CS (2346076-BS1)							Prepared: 1	1/16/23 Ar	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
urrogate: n-Nonane	58.2		50.0		116	50-200			
Matrix Spike (2346076-MS1)				Source:	E311101-0	)3	Prepared: 1	1/16/23 Ar	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132			
urrogate: n-Nonane	52.9		50.0		106	50-200			
Matrix Spike Dup (2346076-MSD1)				Source:	E311101-0	)3	Prepared: 1	1/16/23 Ar	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	2.21	20	
urrogate: n-Nonane	53.0		50.0		106	50-200			

WPX Energy - Carlsbad		Project Name:	RI	DX 16 #008					Reported:
5315 Buena Vista Dr		Project Number:	01	058-0007					
Carlsbad NM, 88220		Project Manager:	Gi	ilbert Moreno					11/20/2023 1:43:42P
		Anions	by EPA 3	00.0/9056 <i>£</i>	4				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 (2346094-BLK1)							Prepared:	11/16/23	Analyzed: 11/18/23
Chloride	ND	20.0							
LCS (2346094-BS1)							Prepared:	11/16/23	Analyzed: 11/18/23
Chloride	248	20.0	250		99.2	90-110			
Matrix Spike (2346094-MS1)				Source:	E311101-0	)3	Prepared:	11/16/23	Analyzed: 11/18/23
Chloride	359	20.0	250	107	101	80-120			
Matrix Spike Dup (2346094-MSD1)				Source:	E311101-0	)3	Prepared:	11/16/23	Analyzed: 11/18/23
Chloride	349	20.0	250	107	96.9	80-120	2.99	20	

#### QC Summary Report Comment:

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



#### **Definitions and Notes**

ſ	WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
l	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/23 13:43

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Received by OCD: 12/20/2023 1:23:39 PM

Client: W	PX Energ	y Permiar	n, LLC.			Bill To		T		ī	ab U	se Or						T	AT		EPA P	rogram
	RDX 16 #0		-		$\dashv$ $\vdash$	Attention: Jim Ralev		Lah	WO			Job		ber		1D	2D	3D	St	andard	CWA	SDWA
	Manager: (		oreno			Address: 5315 Buena Vista Dr.			3110					<del>- 000</del>		-	T		5 (	TAT yet		
	13000 W					City, State, Zip: Carlsbad, NM, 8	8220	1	24.113	~		,4,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		nd Me		1						RCRA
	e, Zip_Oc					Phone: 575-885-7502		1	Г		T	Π	Π	П								
	32-541-7			~	— I	Email: jim.raley@dvn.com		1	55	l	l		1				l				State	
	evon-tear		env com	····	—	WO: 21191055		1	8		1		İ	1						NM CO	UT AZ	TX
2.7.0.1.0	C40:110:	ne cica.				Incident ID: nAPP2322658221.		1	ē	l	1		l				l					
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Collecte	d by: Edyt	e Konan		,		nAPP2317840368		2	0/0	v 802	978	6010	900					<u>ب</u>		×		
Time Sampled	Date Sampled	Matrix	No of Containers	Sample 10	)		Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by	VOC by 8260	Metals 6010	Chloride 300			ВСБОС		2009			Remarks	5
11:50	11.09.23	S	1			PH13	1	0.5								×						
12:00	11.09.23	S	1			PH13	12	1'								x						
12:10	11.09.23	S	1			PH14	3	0.5'								x					\$-65.0000\$	
12:20	11.09.23	s	1			PH14	4	1'								x						
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Addition	al Instruc	tions:				The second secon		<b>.</b>	لـــــا	L	<b>.</b>	1	لــــــ		1							
					ample. I am a	sware that tampering with or Intentionally mi oction. Sampled by: GM	islabeiling the samp	de loca	tion,											on ice the day in 6 °C on subu		pled or
***************************************	d by: (Signi		Date		Time	Received by (Signature)	11/13/	23	Time	:00	<u> </u>	Rece	lved	on ic	e:		b Us	e On	ly	***************************************		***************************************
Relinquishe	d by: (Sign	iture)	Date		Time	Received by: (Signature)	Date		Time			Ta		• • •		T2				T3		
Relinquishe	d by: (Signa	iture)	Date		Time	Received by: (Signature)	Date		Time		AVG Temp °C 4											
		1 7-1-1 8-	Cludes & S	C:	Deber		Container	Type	: 2 - 4	elass	. <b>D</b> - n	oly/n	lastic	80	- L	or ol	255 1	· VO	Δ			
ample Mati	to: S - Sort, Sc	- 304G, 3g ·	audge, A · /	audit con co	norted unles	ss other arrangements are made. Hazar	dous samples wil	bere	turne	dtor	lient	or dien	0504	farsh	clie	nt av	-33, V	75-		· facthar-	hele sist	a sha::=
vote: 24m)	Hes are disc	araea au a	ays alter 10	Series and re-	oha laharri	any with this COC. The liability of the labo	gratory is limited	to the	TIMO:	int ni	id for	on the		er with		u	be: OC		· epoi	cioi die on	mysis on th	# annad



envirotech

Printed: 11/15/2023 11:31:59AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/13/23	09:00		Work Order ID:	E311101
Phone:	(539) 573-4018	Date Logged In:	11/13/23	12:40		Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23	17:00 (4 day TAT)			
Chain o	f Custody (COC)						
	the sample ID match the COC?		Yes				
	the number of samples per sampling site location mat	ch the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was th	ne COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes		- Currer		
	all samples received within holding time? Note: Analysis, such as pH which should be conducted in	the field,	Yes			Comment	s/Resolution
Sample '	i.e, 15 minute hold time, are not included in this disucssic Turn Around Time (TAT)	on.				Comment	STRESOLUTION
	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample	•						
	sample cooler received?		Yes				
	was cooler received in good condition?		Yes				
•	ne sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?						
	s, were custody/security seals intact?		No				
-			NA				
	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling	e received w/i 15	Yes				
	visible ice, record the temperature. Actual sample	temperature: 4°0	<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				
	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field La	<del></del>						
	e field sample labels filled out with the minimum info	rmation:	37				
	Sample ID? Date/Time Collected?		Yes				
	Collectors name?		Yes Yes				
	Preservation		103				
	the COC or field labels indicate the samples were pr	eserved?	No				
	sample(s) correctly preserved?		NA				
	o filteration required and/or requested for dissolved m	netals?	No				
	ase Sample Matrix						
	the sample have more than one phase, i.e., multipha	sa?	No				
	s, does the COC specify which phase(s) is to be analy		No				
		/zeu:	NA				
	ract Laboratory						
	samples required to get sent to a subcontract laborator	-	No				
29. Was	a subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab	: NA		
Client I	nstruction						

Date

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

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

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

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

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

QUESTIONS

Action 296739

#### **QUESTIONS**

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	296739
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Prerequisites					
Incident ID (n#)	nAPP2317840368				
Incident Name	NAPP2317840368 RDX 16 #009 @ 30-015-39752				
Incident Type	Produced Water Release				
Incident Status	Remediation Plan Received				
Incident Well	[30-015-39752] RDX 16 #009				

Location of Release Source					
Please answer all the questions in this group.					
Site Name RDX 16 #009					
Date Release Discovered 06/26/2023					
Surface Owner	State				

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

ature and Volume of Release							
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.							
Crude Oil Released (bbls) Details	Cause: Human Error   Tank (Any)   Crude Oil   Released: 50 BBL   Recovered: 40 BBL   Lost: 10 BBL.						
Produced Water Released (bbls) Details	Cause: Human Error   Tank (Any)   Produced Water   Released: 522 BBL   Recovered: 480 BBL   Lost: 42 BBL.						
Is the concentration of chloride in the produced water >10,000 mg/l	Yes						
Condensate Released (bbls) Details	Not answered.						
Natural Gas Vented (Mcf) Details	Not answered.						
Natural Gas Flared (Mcf) Details	Not answered.						
Other Released Details	Not answered.						
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.						

District I

appropriately

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

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

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

1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 296739

Phone: (505) 476-3470 Fax: (505) 476-3462	
QUESTI	IONS (continued)
Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	296739
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using:  (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True

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

Not answered.

True

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.

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

All free liquids and recoverable materials have been removed and managed

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

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

QUESTIONS, Page 3

Action 296739

**QUESTIONS** (continued)

Operator:	OGRID:	
WPX Energy Permian, LLC	246289	
Devon Energy - Regulatory	Action Number:	
Oklahoma City, OK 73102	296739	
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

#### QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 500 and 1000 (ft.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Between 1 and 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Medium	
A 100-year floodplain	Between 300 and 500 (ft.)	
Did the release impact areas not on an exploration, development, production, or storage site	Yes	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must	be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soi	il contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully deline	eated Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	25200	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	25500	
GRO+DRO (EPA SW-846 Method 8015M)	18300	
BTEX (EPA SW-846 Method 8021B or 8260	0B) 3.5	
Benzene (EPA SW-846 Method 8021B or 826	50B) 0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report inclu which includes the anticipated timelines for beginning and completing the remedia	udes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, ation.	
On what estimated date will the remediation commence	12/01/2024	
On what date will (or did) the final sampling or liner inspection occur	11/09/2023	
On what date will (or was) the remediation complete(d)	11/09/2023	
What is the estimated surface area (in square feet) that will be reclain	med 1838	
What is the estimated volume (in cubic yards) that will be reclaimed	272	
What is the estimated surface area (in square feet) that will be remed	diated 11214	
What is the estimated volume (in cubic yards) that will be remediated	365	
These estimated dates and measurements are recognized to be the best guess or c	calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimal	lly adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to	

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 296739

**QUESTIONS** (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	296739
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	Not answered.	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Yes	
In which state is the disposal taking place	Texas	
What is the name of the out-of-state facility	R360	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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

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

I hereby agree and sign off to the above statement

Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 12/20/2023

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

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

QUESTIONS, Page 5

Action 296739

**QUESTIONS** (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	296739
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

QUESTIONS, Page 6

Action 296739

OHEST	FIONS:	(continu	Ad)

Operator:	OGRID:	
WPX Energy Permian, LLC	246289	
Devon Energy - Regulatory	Action Number:	
Oklahoma City, OK 73102	296739	
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
QUESTIONS		
Sampling Event Information		
Last sampling notification (C-141N) recorded	{Unavailable.}	
Remediation Closure Request		

No

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission

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

CONDITIONS

Action 296739

#### **CONDITIONS**

Operator:	OGRID:	
WPX Energy Permian, LLC	246289	
Devon Energy - Regulatory	Action Number:	
Oklahoma City, OK 73102	296739	
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

#### CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved. Variance request to collect confirmation sidewall and floor samples no more than 400 square feet is approved. Submit deferral request or remediation closure report to the OCD by 6/4/2024	3/7/2024