Page 1 of 131

Incident ID	nAPP2115533694
District RP	
Facility ID	
Application ID	

## **Closure**

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

Closure Report Attachment Checklist: Each of the following	items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
■ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
□ Description of remediation activities	
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance o should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of	lations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name: Jim Raley	Title: Environmental Professional
Signature:	Date:02/20/2023
email: jim.raley@dvn.com	Telephone: 575-689-7597
OCD Only	
Received by: Robert Hamlet	Date: 6/21/2023
	y of liability should their operations have failed to adequately investigate and ewater, human health, or the environment nor does not relieve the responsible l/or regulations.
Closure Approved by: Robert Hamlet	Date: _ 6/21/2023
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nAPP2115533694
District RP	
Facility ID	
Application ID	

# **Release Notification**

## **Responsible Party**

Responsible Party: WPX Energy Permian, LLC.			OGRID: 246289		
Contact Name: Lynda Laumbach			Contact Telephone: (575) 725-1647		
Contact email: Lynda.Laumbach@dvn.com			Incident # (assigned by OCD) nAPP2115533694		
Contact mail	ing address:	5315 Buena Vist	a Drive, Carlsbac	d, NM 882	220
				4.5	
			Location	n of Re	elease Source
Latitude32	2.02378			I	Longitude103.8809
			(NAD 83 in 6	decimal degr	rees to 5 decimal places)
Site Name: R	DX Federal	21 #044			Site Type: Production Facility
Date Release	Discovered	: 06/03/2021			API# (if applicable): 30-015-41193
II:4 I -44	C4:	Т1-:	D		Country
Unit Letter P	Section 21	Township 26S	Range 30E	Eddy	County
1	21	203	JOL	Ludy	
Surface Owner	r: State	X Federal T	ribal	(Name:	)
				_	
			Nature an	ıd Volu	ime of Release
	Materia	ıl(s) Released (Select a	ll that apply and attac	ch calculatio	ons or specific justification for the volumes provided below)
Crude Oil		Volume Release	ed (bbls): 0		Volume Recovered (bbls): 0
X Produced	Water	Volume Release	ed (bbls): 200		Volume Recovered (bbls): 150
			tion of dissolved	chloride i	in the Yes No
Condensa	te	Produced water Volume Release			Volume Recovered (bbls)
Natural G		Volume Release			Volume Recovered (Mcf)
Other (de	scribe)	Volume/Weight	Released (provi	de units)	Volume/Weight Recovered (provide units)
_	,		ď	,	
Cause of Rele	inside the m		point/Can along t	the ROW	causing ~175-200bbl of PW to be released in the ROW. 150bbl
	vered vio v	icuuiii ii iicks.			
Valve failed PW was reco	vered via va				
	vered via va		saturated so	il volume	$\frac{e(ft^3)}{\overline{nt}}$ * estimated soil porosity(%)

Received by OCD: 2/20/2023/3:45:11 PM State of New Mexico
Page 2 Oil Conservation Division

Page 3cof 131

Incident ID	nAPP2115533694
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responding Quantity released was greater than 25 barrangers.		
19.15.29.7(A) NMAC?	Quantity reseased was greater than 25 out	olo of maid	
X Yes No			
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?	
NOR submitted 06/04/202		, u , , ,	
	Initial Ro	esponse	
The responsible p	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury	
X The source of the rele	ease has been stopped.		
X The impacted area ha	s been secured to protect human health and	the environment.	
X Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.	
- 1	ecoverable materials have been removed and		
If all the actions described	d above have <u>not</u> been undertaken, explain	why:	
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: Lyne		Title: Environmental Professional	
Signature:	Somback	Date: 06/09/2021	
email: Lynda.Laumbac		Telephone: (575)725-1647	
OCD Only			
Received by: Ramona	Marcus	Date: 6/9/2021	

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

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

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

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

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

CONDITIONS

Action 31144

### CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	31144
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	6/9/2021

Page 5 of 131

Incident ID	nAPP2115533694
District RP	
Facility ID	
Application ID	

## **Site Assessment/Characterization**

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ☒ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🏻 No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🛛 No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No		
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No		
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	X Yes ☐ No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			

Characterization Report Checklist: Each of the following items must be included in the report.
<u> </u>
🔀 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Field data   F
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
Topographic/Aerial maps
🔀 Laboratory data including chain of custody

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

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	Page 6 of 1.	31
Incident ID	nAPP2115533694	
District RP		
Facility ID		
Application ID		

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

Printed Name: Jim Raley

Title: Environmental Professional

Date: 2/20/2023

email: jim.raley@dvn.com

Telephone: 575-689-7597

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

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

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

Received by OCD: 2/20/2023 3:45:11 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

## **Closure**

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

Closure Report Attachment Checklist: Each of the following it	tems must be included in the closure report.
☒ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Note that Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
■ Laboratory analyses of final sampling (Note: appropriate ODC)	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the correctionacce with 19.15.29.13 NMAC including notification to the Occeptance Views Jim Ralev	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Signature:	Date:
	Telephone: 575-689-7597
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



### **CLOSURE REQUEST REPORT**

Site Location:

RDX Federal 21 #044 Eddy County, New Mexico Incident Number nAPP2115533694

February 14, 2023 Ensolum Project No. 03A1987008

Prepared for:

WPX Energy Permian, LLC 5315 Buena Vista Dr. Carlsbad, NM 88220 Attention: Jim Raley

Prepared by:

Joseph S. Hernandez Senior Geologist Ashley Ager, M.S., P.G.

Principal

### **TABLE OF CONTENTS**

1.0	INTR	ODUCTION	2
	1.1	Site Description and Release Background	2
	1.2	Site Characterization	2
2.0	REME	EDIATION ACTIONS	3
	2.1	Delineation Activities	3
	2.2	Excavation Activities	3
3.0	SOIL	SAMPLING RESULTS	4
4.0	CLOS	SURE REQUEST	4
		LIST OF APPENDICES	
Арр	endix	A: Figure 1: Site Map	
		Figure 2: Delineation Soil Sample Locations	
		Figure 3: Excavation Soil Sample Locations	
App	endix	B: Lithologic Soil Sampling Logs	
Арр	endix	C: Photographic Logs	
Арр	endix	D: Tables	
App	endix	E: Laboratory Analytical Reports & Chain-of-Custody Documentation	



Appendix F:

Correspondence Emails

Page 2

### 1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has prepared this Closure Request Report (CRR) to document corrective actions performed by WPX Energy Permian, LLC (WPX) at the RDX Federal 21 #044 (hereinafter referred to as the "Site") in Unit P, Section 21, Township 26 South, Range 30 East, in Eddy County, New Mexico. The corrective actions have been completed in accordance with a Remediation Work Plan (RWP) authored by WSP USA Inc. (WSP) and approved on January 10, 2022 by the New Mexico Oil Conservation Division (NMOCD) with the following condition:

"Please make sure the floor confirmation samples are delineated/excavated to meet closure criteria standards for proven depth to water determination. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance for confirmation samples of 500 ft<sup>2</sup> is approved."

### 1.1 Site Description and Release Background

The Site is located within Eddy County, New Mexico (32.02378° N, 103.88090° W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land (**Figure 1** in **Appendix A**).

On June 3, 2021, a valve failure caused the release of approximately 200 bbls of produced water onto an adjacent right-of-way (ROW) and pasture. Approximately 150 bbls of free-standing liquid were recovered via vacuum trucks. See **Figure 2** in **Appendix A** depicting the mapped release extent. WPX immediately reported the release to the NMOCD on June 4, 2021 via email and on a Release Notification and Corrective Action Form C-141 (Form C-141) on June 9, 2021. The release was assigned Incident Number nAPP2115533694.

### 1.2 Site Characterization

A detailed Site Characterization can be referenced in the approved RWP submitted by WSP. Based on the desktop review summary of nearby receptors and drilling for depth to groundwater determination at the Site, the following NMOCD Table 1 Closure Criteria for constituents of concern (COCs) were applied:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet in the pasture area that was impacted by the release.



### 2.0 REMEDIATION ACTIONS

### 2.1 Delineation Activities

The RWP presented results from original samples collected to delineate lateral and vertical extent of the release. On June 9, 2022, additional delineation activities were conducted by Ensolum to confirm the presence or absence of elevated COCs in a *de minimis* impacted area within the subject release. One borehole was advanced with a hand auger (samples designated as BH10). Delineation activites were directed by field sceening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A total of two soil samples were collected from BH10: the sample with the highest observed field screening (1-foot bgs) and the greatest depth (4 feet bgs). The locations of delineation soil samples collected to date are shown in **Figure 2** in **Appendix A**. Field screening results and observations for BH10 were recorded on a lithologic/soil sampling log (**Appendix B**).

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported and chilled under strict chain-of-custody procedures to Eurofins LLC (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0.

### 2.2 Excavation Activities

Between June 22, 2022 and July 6, 2022, excavation activities were conducted by Ensolum to remove impacted soil associated with the subject release via heavy equipment and/or hydrovac. WPX implemented safety precautions such as de-energizing active electrical and power lines on site for safety of personnel before commencing disturbance activities. Excavation activites were directed by referencing delineation laboratory analytical results and by field sceening soil for VOCs utilizing a calibrated PID and chloride using Hach® chloride QuanTab® test strips.

Following removal of impacted soil, Ensolum collected composite soil samples at a sampling frequency of 500 square feet from the sidewalls (samples designated as SW) and floors (samples designated as FS) of the excavation to confirm impacted soil above reclamation requirements and/or Closure Criteria was successfully removed. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples SW01 through SW12 were collected from the sidewalls of the excavation(s) at depths ranging from the ground surface to approximately 4 feet bgs; FS01 through FS20 were collected from the floor of the excavation(s) at a depth of approximately 4 feet bgs. The soil samples were handled, collected and analyzed as previously described.

The approximate extent of excavation and excavation soil sample locations is provided on **Figure 3** in **Appendix A**. Photographic documentation of remediation activities is included in **Appendix C**.

At the completion of remediation action activities, approximately 1,349 cubic yards of impacted soil were excavated and disposed of under WPX-approved manifests. The excavated impacted soil was transported for disposal to a R360 Environmental Solutions, LLC in accordance with state and federal regulations.



February 14, 2023

Page 4

### 3.0 SOIL SAMPLING RESULTS

Laboratory analytical data from the delineation samples collected from BH10 indicate the absence of elevated COCs within that area of the release. Laboratory analytical results for final confirmation soil samples indicated COCs were below the reclamation requirement and/or Closure Criteria. Laboratory analytical results are summarized in **Table 1** included in **Appendix D**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix E**. **Appendix F** provides correspondence email notification receipts associated with the release.

### 4.0 CLOSURE REQUEST

The primary objectives of Ensolum's scope of services were to document that response actions performed at the Site were completed in accordance with the applicable NMOCD regulatory guidelines and to document removal of soil containing concentrations of COCs exceeding the applicable reclamation requirements and/or Closure Criteria were remediated. Based on the results documented in this report, the following findings and conclusions regarding the Site are presented:

- COCs associated with BH04 indicated concentrations below the reclamation requirement, therefore no remediation occurred in that area. Ensolum conducted additional delineation activities to further characterize areas with *de minimis* surface impacts. Ensolum advanced delineation sample BH10 within the release footprint and it was confirmed that COCs were also below the applicable reclamation requirement;
- Ensolum directed excavation activities by referencing delineation laboratory analytical data and by field screening soil impacted by the release. Approximately 1,349 cubic yards of impacted soil were excavated and removed from the Site for disposal in accordance with state and federal regulations;
- Based on laboratory analytical results associated with final confirmation excavation soil samples, concentrations of COCs greater than the NMOCD applicable reclamation standard requirement and/or Closure Criteria were not identified in soil remaining on-Site; and
- The excavation has been backfilled with clean, imported soil and restored to "as close to its original state" as possible.

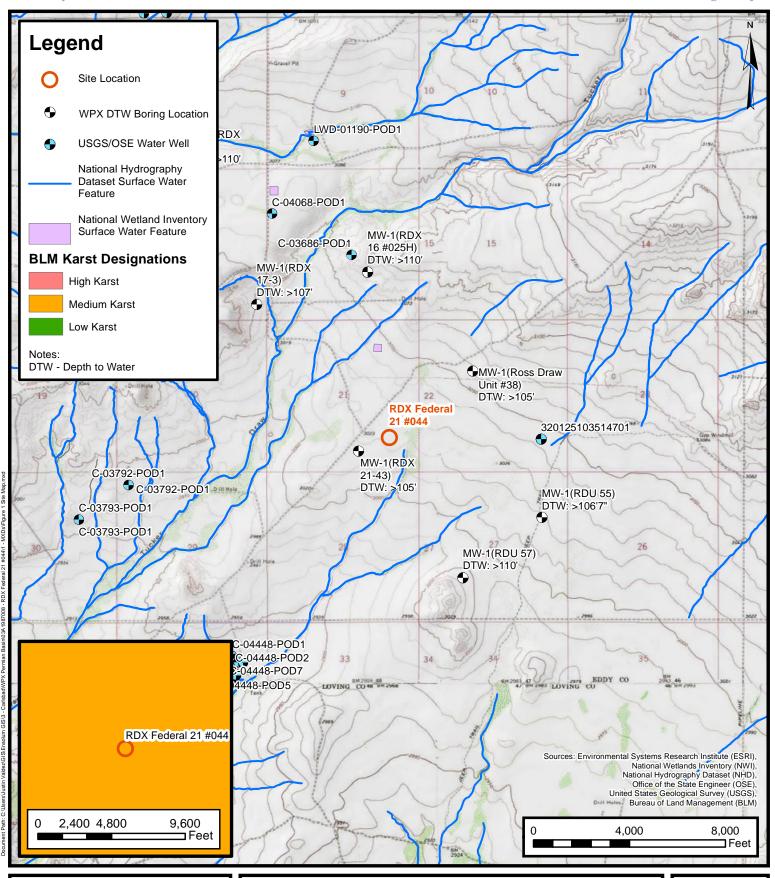
Based on the findings and conclusions of this report No Further Action appears warranted at this time and the Site should be respectfully considered for closure by the NMOCD. Previous project summary and field activity details can be found in the original RWP.





**APPENDIX A** 

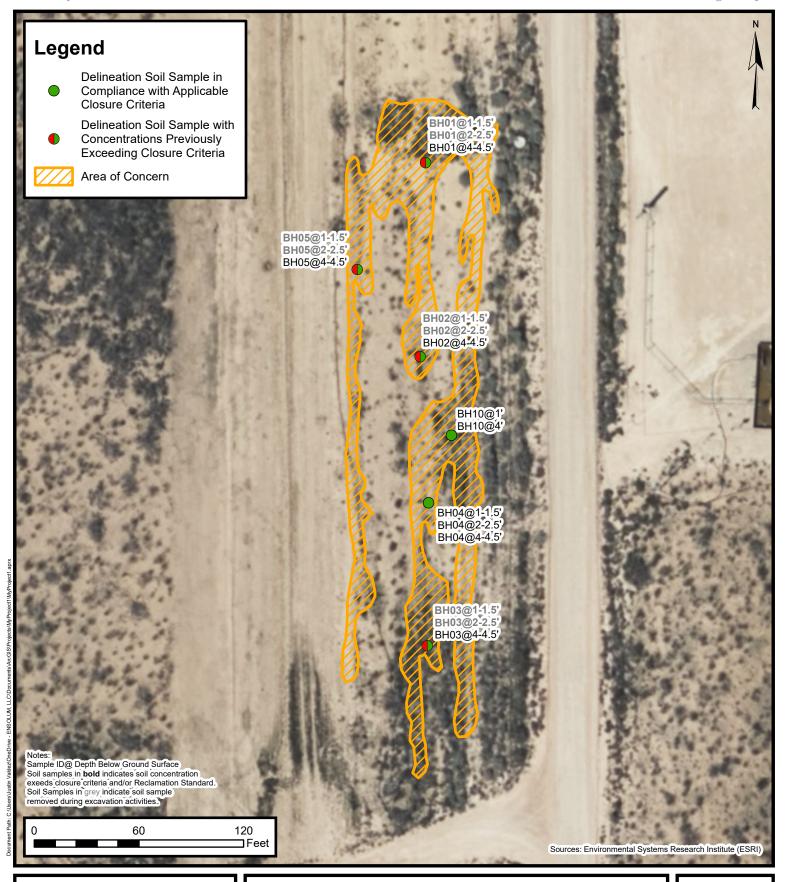
**Figures** 





# **Site Map**

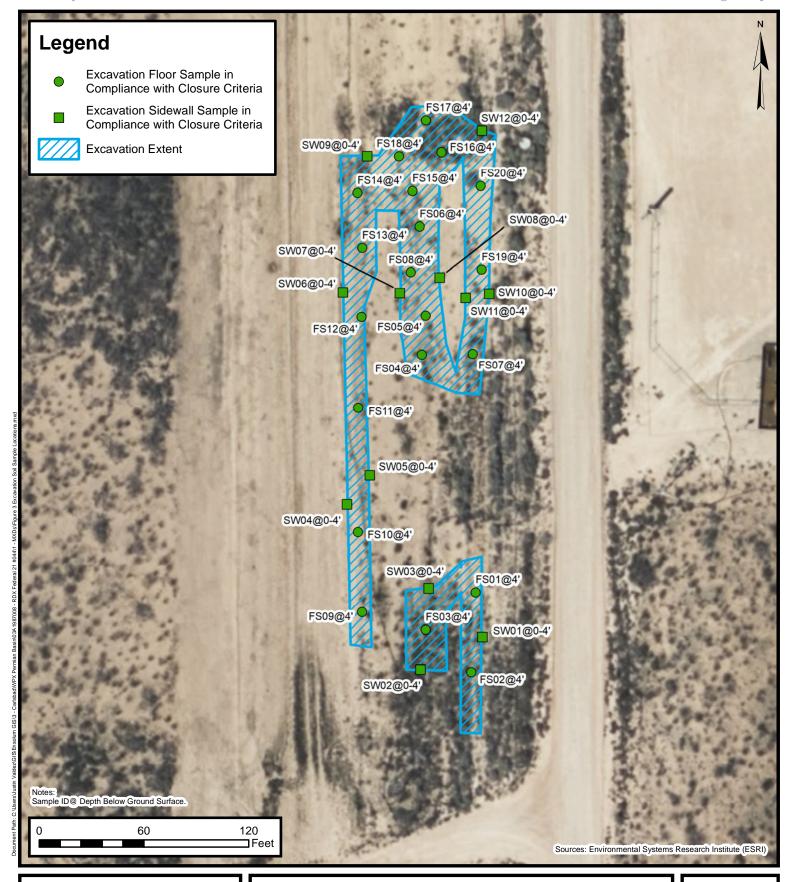
RDX Federal 21 #044 WPX Energy Permian, LLC Unit P, Section 21, Township 26S, Range 30E Eddy County, New Mexico **FIGURE** 





# **Delineation Soil Sample Locations**

RDX Federal 21 #044 WPX Energy Permian, LLC Unit P, Section 21, Township 26S, Range 30E Eddy County, New Mexico **FIGURE** 





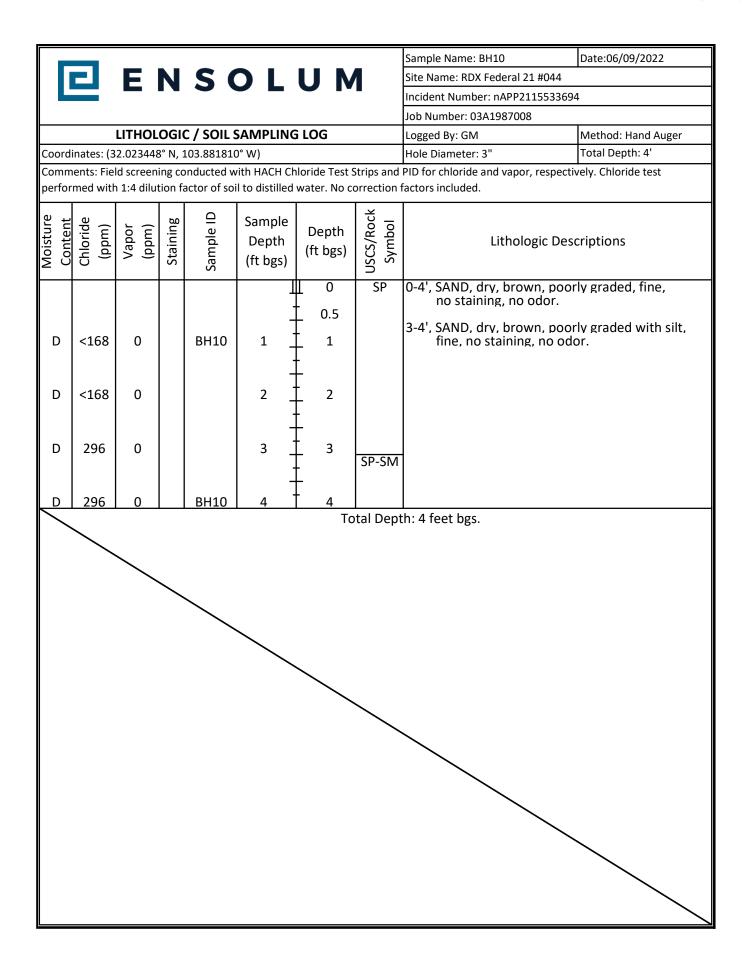
# **Excavation Soil Sample Locations**

RDX Federal 21 #044 WPX Energy Permian, LLC Unit P, Section 21, Township 26S, Range 30E Eddy County, New Mexico **FIGURE** 



**APPENDIX B** 

Lithologic Soil Sampling Logs





**APPENDIX C** 

Photographic Log



### **Photographic Log**

WPX Energy Permian, LLC.
RDX Federal 21 #044
Incident Number: nAPP2115533694

Ensolum Job Number: 03A1987008





Photograph: 1 Date: 6/22/2022 Photograph: 2 Date: 6/24/2022

View: South View: North





Photograph: 3 Date: 6/27/2022 Photograph: 4 Date: 6/28/2022

Description: Excavation activities.

Description: Excavation activities.

View: North View: South



### **Photographic Log**

WPX Energy Permian, LLC. RDX Federal 21 #044 Incident Number nAPP2115533694 Ensolum Job Number: 03A1987008





Photograph: 5 Date: 6/30/2022 Photograph: 6 Date: 11/30/2022

Description: Backfill activities. Description: Excavation activities.

View: View: North North





Photograph: 7 Date: 12/1/2022 Photograph: 8 Date: 12/5/2022 Description: Backfill activities.

Description: Backfill activities.

View: North View: North



# APPENDIX D

**Tables** 



# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC - RDX Federal 21 #044 Eddy County, New Mexico

Ensolum Project No. 03A1987008

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)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delineati	on Soil Sample Analy	tical Results				
BH10	06/09/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	19.7
BH10	06/09/2022	4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	417
				Excavation	Floor Soil Sample Ar	nalytical Results				
FS01	06/22/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	2,080
FS02	06/22/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	4,340
FS03	06/23/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	2,890
FS04	06/27/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	1,370
FS05	06/27/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	463
FS06	06/27/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	959
FS07	06/27/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	3,880
FS08	06/29/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	391
FS09	06/29/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	1,620
FS10	06/29/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	1,630
FS11	06/29/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	2,260
FS12	07/06/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	237
FS13	07/06/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	2,510
FS14	07/06/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	2,580
FS15	07/06/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	232
FS16	07/06/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	1,770
FS17	07/06/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	594
FS18	07/06/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	430
FS19	07/06/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	216
FS20	07/06/2022	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	1,260

Ensolum 1 of 2



# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC - RDX Federal 21 #044 Eddy County, New Mexico

### Ensolum Project No. 03A1987008

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)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Excavation Si	dewall Soil Sample A	Analytical Results				
SW01	06/22/2022	0 - 4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	203
SW02	06/22/2022	0 - 4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	268
SW03	06/23/2022	0 - 4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW04	06/29/2022	0 - 4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	216
SW05	06/29/2022	0 - 4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	161
SW06	06/30/2022	0 - 4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	192
SW07	06/30/2022	0 - 4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	142
SW08	07/06/2022	0 - 4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	57.6
SW09	07/06/2022	0 - 4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	289
SW10	07/06/2022	0 - 4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	197
SW11	07/06/2022	0 - 4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	96.9
SW12	07/06/2022	0 - 4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	36.6

### Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria and/or Reclamation

Standard for Soils Impacted by a Release

Ensolum 2 of 2



# **APPENDIX E**

Laboratory Analytical Reports & Chain-of-Custody Documentation



# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2401-1

Laboratory Sample Delivery Group: Eddy County NM

Client Project/Site: RDX Federal 21 #044

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Anna Byers

JURAMER

Authorized for release by 6/17/2022 10:28:18 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Authorized for release by:

Review your project results through EO L.

Have a Question?

Expert

Visit us at: www.eurofinsus.com/Env

Released to Imaging: 6/21/2023 3:20:39 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

5

6

8

11

4.0

Client: Ensolum
Project/Site: RDX Federal 21 #044
Laboratory Job ID: 890-2401-1
SDG: Eddy County NM

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	14
Lab Chronicle	16
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	21

2

3

4

6

8

10

12

13

### **Definitions/Glossary**

Job ID: 890-2401-1 Client: Ensolum Project/Site: RDX Federal 21 #044 SDG: Eddy County NM

**Qualifiers** 

**GC VOA** 

Qualifier **Qualifier Description** 

MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier **Qualifier Description** 

\*+ LCS and/or LCSD is outside acceptance limits, high biased. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

**HPLC/IC** 

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

**Glossary** 

MCL

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor** 

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

**EDL** Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

**PRES** Presumptive QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TEQ

**TNTC** Too Numerous To Count

### **Case Narrative**

Client: Ensolum

Job ID: 890-2401-1 Project/Site: RDX Federal 21 #044 SDG: Eddy County NM

Job ID: 890-2401-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-2401-1

### Receipt

The samples were received on 6/9/2022 3:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

### **GC VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC Semi VOA

Method 8015MOD NM: The laboratory control sample (LCS) associated with preparation batch 880-27379 and analytical batch 880-27351 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: BH10 (890-2401-1), (LCS 880-27379/2-A) and (LCSD 880-27379/3-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Ensolum

Job ID: 890-2401-1 Project/Site: RDX Federal 21 #044 SDG: Eddy County NM

Lab Sample ID: 890-2401-1 **Client Sample ID: BH10** 

Date Collected: 06/09/22 10:00 Matrix: Solid Date Received: 06/09/22 15:52

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/15/22 10:22	06/16/22 04:01	1
Toluene	< 0.00199	U	0.00199		mg/Kg		06/15/22 10:22	06/16/22 04:01	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		06/15/22 10:22	06/16/22 04:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/15/22 10:22	06/16/22 04:01	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		06/15/22 10:22	06/16/22 04:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/15/22 10:22	06/16/22 04:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				06/15/22 10:22	06/16/22 04:01	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/15/22 10:22	06/16/22 04:01	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/15/22 12:05	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/14/22 09:33	1
- -			50.0		mg/Kg				1
: Method: 8015B NM - Diesel Rang	e Organics (D		50.0	MDL	mg/Kg Unit	D	Prepared		1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	e Organics (D	RO) (GC)  Qualifier		MDL		<u>D</u>	Prepared 06/13/22 09:28	06/14/22 09:33	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	e Organics (D	RO) (GC)  Qualifier	RL	MDL	Unit	<u>D</u>		06/14/22 09:33  Analyzed	1 Dil Fac
Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	e Organics (D Result <50.0	RO) (GC) Qualifier U *+	RL	MDL	Unit mg/Kg	<u>D</u>	06/13/22 09:28	06/14/22 09:33  Analyzed  06/13/22 14:45	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (D)  Result  <50.0  <50.0	Qualifier U *+	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	06/13/22 09:28 06/13/22 09:28	06/14/22 09:33  Analyzed 06/13/22 14:45 06/13/22 14:45	1 Dil Fac 1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	e Organics (D)  Result  <50.0  <50.0	Qualifier U *+		MDL	Unit mg/Kg mg/Kg	<u>D</u>	06/13/22 09:28 06/13/22 09:28 06/13/22 09:28	06/14/22 09:33  Analyzed 06/13/22 14:45 06/13/22 14:45	Dil Fac  1  1  1  Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U *+		MDL	Unit mg/Kg mg/Kg	<u>D</u>	06/13/22 09:28 06/13/22 09:28 06/13/22 09:28 Prepared	Analyzed 06/13/22 14:45 06/13/22 14:45 Analyzed	Dil Fac  1  1  Dil Fac  Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result	Qualifier  U *+  U  Qualifier  S1+		MDL	Unit mg/Kg mg/Kg	<u>D</u>	06/13/22 09:28 06/13/22 09:28 06/13/22 09:28 Prepared 06/13/22 09:28	06/14/22 09:33  Analyzed 06/13/22 14:45 06/13/22 14:45  Analyzed 06/13/22 14:45	1 Dil Fac 1 1 1 1 Dil Fac 1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier  U *+  U  Qualifier  S1+			Unit mg/Kg mg/Kg	<u>D</u>	06/13/22 09:28 06/13/22 09:28 06/13/22 09:28 Prepared 06/13/22 09:28	06/14/22 09:33  Analyzed 06/13/22 14:45 06/13/22 14:45  Analyzed 06/13/22 14:45	1 Dil Fac 1 Dil Fac 1

**Client Sample ID: BH10** Lab Sample ID: 890-2401-2

Date Collected: 06/09/22 10:05 Date Received: 06/09/22 15:52

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 09:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 09:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 09:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/14/22 11:32	06/15/22 09:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 09:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/14/22 11:32	06/15/22 09:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				06/14/22 11:32	06/15/22 09:12	1

**Eurofins Carlsbad** 

**Matrix: Solid** 

1-Chlorooctane

o-Terphenyl

## **Client Sample Results**

Client: Ensolum Job ID: 890-2401-1
Project/Site: RDX Federal 21 #044 SDG: Eddy County NM

Client Sample ID: BH10 Lab Sa

Lab Sample ID: 890-2401-2 Matrix: Solid

06/13/22 09:28

06/13/22 09:28

06/13/22 15:07

06/13/22 15:07

Date Collected: 06/09/22 10:05
Date Received: 06/09/22 15:52
Sample Depth: 4

111

127

Method: 8021B - Volatile Organic Compounds (GC) (Continued)									
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1.4 Diffuorobenzene (Surr)		70 120	06/14/22 11:22	06/15/22 00:12					

Method: Total BTEX - Total BTEX C	Calculation							
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	П	0.00401	ma/Ka			06/15/22 12:05	

Method: 8015 NM - Diesel Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.9	U	49.9		mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/22 09:28	06/13/22 15:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		06/13/22 09:28	06/13/22 15:07	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/22 09:28	06/13/22 15:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Method: 300.0 - Anions, Ion Chrom							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	417	5.00	mg/Kg			06/17/22 06:09	1

70 - 130

70 - 130

## **Surrogate Summary**

Client: Ensolum

Job ID: 890-2401-1

Project/Site: RDX Federal 21 #044

SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

390-2388-A-19-F MS	Client Sample ID  Matrix Spike	BFB1 (70-130)	DFBZ1	
390-2388-A-19-F MS	<del></del>	(70-130)		
	Matrix Chika		(70-130)	
390-2388-A-19-G MSD	Matrix Spike	92	89	
	Matrix Spike Duplicate	87	94	
390-2388-A-32-E MS	Matrix Spike	106	98	
390-2388-A-32-F MSD	Matrix Spike Duplicate	105	106	
390-2401-1	BH10	103	96	
390-2401-2	BH10	109	94	
_CS 880-27499/1-A	Lab Control Sample	107	102	
_CS 880-27599/1-A	Lab Control Sample	106	102	
_CSD 880-27499/2-A	Lab Control Sample Dup	107	100	
_CSD 880-27599/2-A	Lab Control Sample Dup	101	100	
MB 880-27492/5-A	Method Blank	101	91	
MB 880-27499/5-A	Method Blank	101	91	
MB 880-27599/5-A	Method Blank	80	90	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-15766-A-1-B MS	Matrix Spike	110	106	
880-15766-A-1-C MSD	Matrix Spike Duplicate	111	109	
890-2401-1	BH10	116	131 S1+	
890-2401-2	BH10	111	127	
LCS 880-27379/2-A	Lab Control Sample	140 S1+	151 S1+	
LCSD 880-27379/3-A	Lab Control Sample Dup	126	132 S1+	
MB 880-27379/1-A	Method Blank	100	118	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2401-1 SDG: Eddy County NM Project/Site: RDX Federal 21 #044

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-27492/5-A

**Matrix: Solid** Analysis Batch: 27512 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27492

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/14/22 10:17	06/14/22 16:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/14/22 10:17	06/14/22 16:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/14/22 10:17	06/14/22 16:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/14/22 10:17	06/14/22 16:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/14/22 10:17	06/14/22 16:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/14/22 10:17	06/14/22 16:13	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/14/22 10:17	06/14/22 16:13	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/14/22 10:17	06/14/22 16:13	1

Lab Sample ID: MB 880-27499/5-A

Client Sample ID: Method Blank

Lab Cample 15: MB 000-27-400/0-A	Cheft Cample 15. Method Blank
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 27512	Prep Batch: 27499
MB MB	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 03:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 03:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 03:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/14/22 11:32	06/15/22 03:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 03:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/14/22 11:32	06/15/22 03:41	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/14/22 11:32	06/15/22 03:41	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/14/22 11:32	06/15/22 03:41	1

Lab Sample ID: LCS 880-27499/1-A

**Matrix: Solid** 

Analysis Batch: 27512

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 27499

	Spike	LCS LCS				%Rec
Analyte	Added	Result Quali	lifier Unit	D	%Rec	Limits
Benzene	0.100	0.1014	mg/Kg		101	70 - 130
Toluene	0.100	0.09772	mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1021	mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2037	mg/Kg		102	70 - 130
o-Xylene	0.100	0.1029	mg/Kg		103	70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1.4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: LCSD 880-27499/2-A

**Matrix: Solid** 

Analysis Batch: 27512

Client Sample ID: Lab	Control Sample Dup
	Dunn Times Tetal/NIA

Prep Type: Total/NA

Prep Batch: 27499

	Spike	LCSD LCSD				70KeC		KPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1084	mg/Kg		108	70 - 130	7	35

LCCD LCCD

Cnika

Job ID: 890-2401-1 Client: Ensolum Project/Site: RDX Federal 21 #044 SDG: Eddy County NM

### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-27499/2-A

**Matrix: Solid** 

Prep Type: Total/NA Analysis Batch: 27512 Prep Batch: 27499 LCSD LCSD Spike %Rec **RPD** Added Result Qualifier Unit %Rec Limits **RPD** Limit D 35

Analyte Toluene 0.100 0.1050 105 70 - 130 mg/Kg Ethylbenzene 0.100 0.1109 mg/Kg 111 70 - 130 8 35 0.200 0.2208 70 - 130 35 m-Xylene & p-Xylene mg/Kg 110 8 o-Xylene 0.100 0.1121 mg/Kg 112 70 - 130 9 35

> LCSD LCSD Qualifier %Recovery

Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 107 1,4-Difluorobenzene (Surr) 100 70 - 130

Lab Sample ID: 890-2388-A-19-F MS Client Sample ID: Matrix Spike Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 27512

Prep Batch: 27499 MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 0.03062 F1 Benzene <0.00200 UF1 0.100 ma/Ka 31 70 - 130

Toluene <0.00200 UF1 0.100 0.03557 F1 36 70 - 130 mg/Kg 37 Ethylbenzene < 0.00200 UF1 0.100 0.03756 F1 mg/Kg 70 - 130 0.07761 F1 0.200 39 70 - 130 m-Xylene & p-Xylene <0.00401 UF1 mg/Kg o-Xylene <0.00200 UF1 0.100 0.04337 F1 mg/Kg 43 70 - 130

MS MS

Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 92 89 1,4-Difluorobenzene (Surr) 70 - 130

Lab Sample ID: 890-2388-A-19-G MSD

**Matrix: Solid** 

**Analysis Batch: 27512** 

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 27499

Sample Sample MSD MSD %Rec RPD Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00200 U F1 0.0996 0.03440 F1 mg/Kg 35 70 - 130 12 35 Toluene <0.00200 UF1 0.0996 0.04224 F1 mg/Kg 42 70 - 130 17 35 Ethylbenzene <0.00200 UF1 0.0996 0.04317 F1 mg/Kg 43 70 - 130 14 35 0.199 m-Xylene & p-Xylene <0.00401 UF1 0.08736 F1 mg/Kg 44 70 - 13012 35 o-Xylene <0.00200 UF1 0.0996 0.05106 F1 mg/Kg 51 70 - 130 16 35

MSD

Qualifier I imits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 87 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 94

Lab Sample ID: MB 880-27599/5-A

**Matrix: Solid** 

**Analysis Batch: 27608** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27599

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/15/22 10:22	06/15/22 17:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/15/22 10:22	06/15/22 17:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/15/22 10:22	06/15/22 17:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/15/22 10:22	06/15/22 17:37	1

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Page 9 of 22

Client: Ensolum

Project/Site: RDX Federal 21 #044

Job ID: 890-2401-1

SDG: Eddy County NM

### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-27599/5-A

**Matrix: Solid** 

**Analysis Batch: 27608** 

**Analysis Batch: 27608** 

Lab Sample ID: LCSD 880-27599/2-A

**Matrix: Solid** 

**Analysis Batch: 27608** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27599

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/15/22 10:22	06/15/22 17:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/15/22 10:22	06/15/22 17:37	1

MR MR

MR MR

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80	70 - 130	06/15/22 10:22	06/15/22 17:37	1
1,4-Difluorobenzene (Surr)	90	70 - 130	06/15/22 10:22	06/15/22 17:37	1

**Client Sample ID: Lab Control Sample** 

Lab Sample ID: LCS 880-27599/1-A **Matrix: Solid** Prep Type: Total/NA

Prep Batch: 27599

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09316 mg/Kg 93 70 - 130 Toluene 0.100 0.09560 mg/Kg 96 70 - 130 0.100 0.1073 107 70 - 130 Ethylbenzene mg/Kg m-Xylene & p-Xylene 0.200 0.2094 mg/Kg 105 70 - 130 o-Xylene 0.100 0.1023 102 mg/Kg 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1.4-Difluorobenzene (Surr)	102	70 - 130

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

Prep Batch: 27599

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08916		mg/Kg		89	70 - 130	4	35
Toluene	0.100	0.08919		mg/Kg		89	70 - 130	7	35
Ethylbenzene	0.100	0.09997		mg/Kg		100	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1941		mg/Kg		97	70 - 130	8	35
o-Xylene	0.100	0.09567		mg/Kg		96	70 - 130	7	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1.4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: 890-2388-A-32-E MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

**Analysis Batch: 27608** 

Prep Type: Total/NA Prep Batch: 27599

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.08140		mg/Kg		81	70 - 130	
Toluene	<0.00201	U	0.100	0.08190		mg/Kg		82	70 - 130	
Ethylbenzene	<0.00201	U	0.100	0.09130		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1823		mg/Kg		91	70 - 130	
o-Xylene	<0.00201	U	0.100	0.08789		mg/Kg		88	70 - 130	

Client: Ensolum Job ID: 890-2401-1 Project/Site: RDX Federal 21 #044 SDG: Eddy County NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2388-A-32-E MS

**Matrix: Solid** 

Analysis Batch: 27608

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 27599

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 106 70 - 130

98

Lab Sample ID: 890-2388-A-32-F MSD

**Matrix: Solid** Analysis Batch: 27608

1,4-Difluorobenzene (Surr)

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 27599

Analysis Batom 27000										Dutoii.	_, 000
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0996	0.1052		mg/Kg		106	70 - 130	25	35
Toluene	<0.00201	U	0.0996	0.09673		mg/Kg		97	70 - 130	17	35
Ethylbenzene	<0.00201	U	0.0996	0.1054		mg/Kg		106	70 - 130	14	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.2102		mg/Kg		106	70 - 130	14	35
o-Xylene	<0.00201	U	0.0996	0.1033		mg/Kg		104	70 - 130	16	35

70 - 130

MSD MSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 105 70 - 130 1,4-Difluorobenzene (Surr) 106 70 - 130

### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-27379/1-A

**Matrix: Solid** 

Analysis Batch: 27351

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27379

	IB MB						
Analyte Res	ult Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics <50 (GRO)-C6-C10	.0 U	50.0	mg/Kg		06/13/22 09:28	06/13/22 11:29	1
Diesel Range Organics (Over <50 C10-C28)	.0 U	50.0	mg/Kg		06/13/22 09:28	06/13/22 11:29	1
OII Range Organics (Over C28-C36) <50	.0 U	50.0	mg/Kg		06/13/22 09:28	06/13/22 11:29	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	06/13/22 09:28	06/13/22 11:29	1
o-Terphenyl	118		70 - 130	06/13/22 09:28	06/13/22 11:29	1

Lab Sample ID: LCS 880-27379/2-A

**Matrix: Solid** 

Analysis Batch: 27351

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 27379

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1128		mg/Kg		113	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1452	*+	mg/Kg		145	70 - 130	
C10 C20)								

C10-C28)

	LUS	LUS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	140	S1+	70 - 130
o-Terphenyl	151	S1+	70 - 130

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 27379

Client Sample ID: Lab Control Sample Dup

Job ID: 890-2401-1 Project/Site: RDX Federal 21 #044 SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

ICSD ICSD

Lab Sample ID: LCSD 880-27379/3-A

**Matrix: Solid** 

Analysis Batch: 27351							Prep	Batch:	27379
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1151		mg/Kg		115	70 - 130	2	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1407	*+	mg/Kg		141	70 - 130	3	20

C10-C28)

Client: Ensolum

	2002	2002	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	132	S1+	70 - 130

Lab Sample ID: 880-15766-A-1-B MS

**Matrix: Solid** 

**Analysis Batch: 27351** 

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1254		mg/Kg		126	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U *+	998	1208		mg/Kg		121	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: 880-15766-A-1-C MSD	Client Sample ID: Matrix Spike Duplicate
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 27351	Prep Batch: 27379

79

Client Sample ID: Method Blank

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U	999	1255		mg/Kg		126	70 - 130	0	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U *+	999	1273		mg/Kg		127	70 - 130	5	20	
C10-C28)												

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 111 70 - 130 109 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27517/1-A

**Matrix: Solid** 

Analysis Batch: 27729

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			06/17/22 05:22	1

**Eurofins Carlsbad** 

**Prep Type: Soluble** 

# QC Sample Results

Client: Ensolum Job ID: 890-2401-1 Project/Site: RDX Federal 21 #044

SDG: Eddy County NM

Client Sample ID: BH10

**Prep Type: Soluble** 

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-27517/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 27729** 

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 240.6 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-27517/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 27729** 

Spike LCSD LCSD %Rec RPD Added Result Qualifier Unit RPD Limit Analyte D %Rec Limits Chloride 250 236.3 mg/Kg 95 90 - 110

Lab Sample ID: 890-2401-1 MS Client Sample ID: BH10 **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 27729** 

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 19.7 248 247.6 92 90 - 110 mg/Kg

Lab Sample ID: 890-2401-1 MSD

**Matrix: Solid** 

**Analysis Batch: 27729** 

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec RPD Limit Limits Chloride 19.7 248 251.2 93 90 - 110 20 mg/Kg

**Eurofins Carlsbad** 

# **QC Association Summary**

Client: Ensolum

Project/Site: RDX Federal 21 #044

Job ID: 890-2401-1 SDG: Eddy County NM

# **GC VOA**

# Prep Batch: 27492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27492/5-A	Method Blank	Total/NA	Solid	5035	

### Prep Batch: 27499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2401-2	BH10	Total/NA	Solid	5035	
MB 880-27499/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27499/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27499/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2388-A-19-F MS	Matrix Spike	Total/NA	Solid	5035	
890-2388-A-19-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

### Analysis Batch: 27512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2401-2	BH10	Total/NA	Solid	8021B	27499
MB 880-27492/5-A	Method Blank	Total/NA	Solid	8021B	27492
MB 880-27499/5-A	Method Blank	Total/NA	Solid	8021B	27499
LCS 880-27499/1-A	Lab Control Sample	Total/NA	Solid	8021B	27499
LCSD 880-27499/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27499
890-2388-A-19-F MS	Matrix Spike	Total/NA	Solid	8021B	27499
890-2388-A-19-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	27499

### Prep Batch: 27599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bate
890-2401-1	BH10	Total/NA	Solid	5035	
MB 880-27599/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27599/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27599/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2388-A-32-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2388-A-32-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

### **Analysis Batch: 27608**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2401-1	BH10	Total/NA	Solid	8021B	27599
MB 880-27599/5-A	Method Blank	Total/NA	Solid	8021B	27599
LCS 880-27599/1-A	Lab Control Sample	Total/NA	Solid	8021B	27599
LCSD 880-27599/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27599
890-2388-A-32-E MS	Matrix Spike	Total/NA	Solid	8021B	27599
890-2388-A-32-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	27599

### **Analysis Batch: 27612**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2401-1	BH10	Total/NA	Solid	Total BTEX	
890-2401-2	BH10	Total/NA	Solid	Total BTEX	

# GC Semi VOA

# Analysis Batch: 27351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2401-1	BH10	Total/NA	Solid	8015B NM	27379
890-2401-2	BH10	Total/NA	Solid	8015B NM	27379
MB 880-27379/1-A	Method Blank	Total/NA	Solid	8015B NM	27379

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# **QC Association Summary**

Client: Ensolum
Project/Site: RDX Federal 21 #044

Job ID: 890-2401-1 SDG: Eddy County NM

# GC Semi VOA (Continued)

### **Analysis Batch: 27351 (Continued)**

L	ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
L	CS 880-27379/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27379
L	CSD 880-27379/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27379
8	80-15766-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	27379
8	80-15766-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	27379

### Prep Batch: 27379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2401-1	BH10	Total/NA	Solid	8015NM Prep	
890-2401-2	BH10	Total/NA	Solid	8015NM Prep	
MB 880-27379/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27379/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27379/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-15766-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-15766-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

### **Analysis Batch: 27478**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2401-1	BH10	Total/NA	Solid	8015 NM	
890-2401-2	BH10	Total/NA	Solid	8015 NM	

### HPLC/IC

### Leach Batch: 27517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2401-1	BH10	Soluble	Solid	DI Leach	
890-2401-2	BH10	Soluble	Solid	DI Leach	
MB 880-27517/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27517/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27517/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2401-1 MS	BH10	Soluble	Solid	DI Leach	
890-2401-1 MSD	BH10	Soluble	Solid	DI Leach	

### Analysis Batch: 27729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2401-1	BH10	Soluble	Solid	300.0	27517
890-2401-2	BH10	Soluble	Solid	300.0	27517
MB 880-27517/1-A	Method Blank	Soluble	Solid	300.0	27517
LCS 880-27517/2-A	Lab Control Sample	Soluble	Solid	300.0	27517
LCSD 880-27517/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27517
890-2401-1 MS	BH10	Soluble	Solid	300.0	27517
890-2401-1 MSD	BH10	Soluble	Solid	300.0	27517

**Eurofins Carlsbad** 

Job ID: 890-2401-1

Client: Ensolum Project/Site: RDX Federal 21 #044 SDG: Eddy County NM

Lab Sample ID: 890-2401-1 **Client Sample ID: BH10** 

Matrix: Solid

Date Collected: 06/09/22 10:00 Date Received: 06/09/22 15:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	27599	06/15/22 10:22	MR	XEN MID
Total/NA	Analysis	8021B		1			27608	06/16/22 04:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27612	06/15/22 12:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27478	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27379	06/13/22 09:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/13/22 14:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	27517	06/14/22 13:39	SC	XEN MID
Soluble	Analysis	300.0		1			27729	06/17/22 05:46	CH	XEN MID

**Client Sample ID: BH10** Lab Sample ID: 890-2401-2

Date Collected: 06/09/22 10:05 Matrix: Solid

Date Received: 06/09/22 15:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	27499	06/14/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27512	06/15/22 09:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27612	06/15/22 12:05	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27478	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27379	06/13/22 09:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/13/22 15:07	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27517	06/14/22 13:39	SC	XEN MID
Soluble	Analysis	300.0		1			27729	06/17/22 06:09	CH	XEN MID

**Laboratory References:** 

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# **Accreditation/Certification Summary**

Client: Ensolum

Project/Site: RDX Federal 21 #044

SDG: Eddy County NM

### **Laboratory: Eurofins Midland**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority Pro		ogram	Identification Number	Expiration Date	
Texas		ELAP	T104704400-21-22	06-30-22	
,	are included in this report, bu	ut the laboratory is not certific	ed by the governing authority. This list ma	ay include analytes for v	
the agency does not of	fer certification.				
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte		
0 ,		Matrix Solid	Analyte Total TPH		

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# **Method Summary**

Client: Ensolum

Project/Site: RDX Federal 21 #044

Job ID: 890-2401-1

SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
3015NM Prep	Microextraction	SW846	XEN MID
OI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

### **Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

**Eurofins Carlsbad** 

# **Sample Summary**

Client: Ensolum

Project/Site: RDX Federal 21 #044

Job ID: 890-2401-1

SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2401-1	BH10	Solid	06/09/22 10:00	06/09/22 15:52	1
890-2401-2	BH10	Solid	06/09/22 10:05	06/09/22 15:52	4

E

8551 BB.b.

eurofins

# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:

Project Manager: Anna By Company Name: Ensolum Address: 3122 Na City, State ZIP: Carlsbac Phone: 575-200 Project Name: RI Project Name: RI Sampler's Name: Cooler Custody Seals: You Total Containers: Sample Custody Seals: You Total Containers: Sample Identification  BH10  BH10	nna Byers nsolum 122 National P arlsbad, NM 8 75-200-6754 RDX Fdei 03A11 Eddy Cc Gilbert (00 11 2 Yes No Yes No	arks HWY  8220  8220  8220  Rai 21 #044  987008  Due  Moreno TAT  77 & Correction Factor  N/A) Temperature Recorrected Tempe  Corrected Tempe  S 6.9.22  10		Bill to: (if different)  Company Name:  Address:  City, State ZIP:  Cally, State ZIP:  Call Routine  Rush  Code  Pres.  Vet Ioe:  Vet Ioe:  Vet Ioe:  Vet Ioe:  O O  Reading:  O O  Reading:  O O  Time  Depth  Comp  Cont  Con  Con	Imp: Solum.co		TPH (8015)	CHLORIDES (EPA: 300.0)  TPH (8015)  BTEX (8021	ANALYSIS REQUIRED B90-2401 Chain of C	www.xenco.com  Work Order C  work Order C  work Order C  Brown  f Project:  ng: Level II	Page   of   0    comments  visit   TRRP   Level IV    Other:  Preservative Codes  None: NO DI Water: H₂O  Cool: Cool MeOH: Me HCL: HC HNO₃: HN H₂SO₄: NABIS Na₂S₂O₃: NASO₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC  Sample Comments  Incident ID  napp2115533694
Sample Ident				Depth			ТРН	втех			Sample Comments
BH10		6.9.22	10:00			XX	XX	XX			
ļ											Incident ID
					+						napp2115533694
				2							
		$\supset$	200	10	+						
		1									
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	10 200.8 / 6020: nd Metal(s) to be an	): nalyzed	8RCRA 1: TCLP/	CLP / SPLP 6010: 8RCRA	11 AI Sb 8RCRA St	Sb As Sb As	Ba E s Ba	Be B o	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti	∪ X Se V	\g SiO <sub>2</sub> Na Sr Ti Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471
otice: Signature of this d	ocument and relinquish	ment of samples	constitutes a val	d purchase order ssume any respor	from client islbility for	compan any loss	y to Euro	ofins Xen	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of services. A minimum charge of sea no will be applied to each protect and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ns standard terms and conditions circumstances beyond the control inforced unless previously negotiated.	
Relinquished by: (Signature)	: (Signature)	A Rece	Received by: (Signature)	nature)		Date/	Date/Time		Relinquished by: (Signature)	Received by: (Signature)	re) Date/Time
			1								

Revised Date 08/25/2020 Rev 2020 2

# **Login Sample Receipt Checklist**

Client: Ensolum Job Number: 890-2401-1 SDG Number: Eddy County NM

Login Number: 2401 List Number: 1 Creator: Clifton, Cloe List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Released to Imaging: 6/21/2023 3:20:39 PM

# **Login Sample Receipt Checklist**

Client: Ensolum

Job Number: 890-2401-1

SDG Number: Eddy County NM

List Source: Eurofins Midland

List Number: 2

List Creati

List Creation: 06/13/22 09:42 AM

Creator: Rodriguez, Leticia

Login Number: 2401

<6mm (1/4").

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

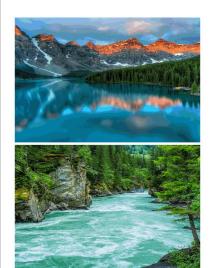
Eurofins Carlsbad

Page 22 of 22

6/17/2022

Report to:

Joseph Hernandez







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 21-44

Work Order: E206186

Job Number: 01058-0007

Received: 6/27/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/6/22

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. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 7/6/22

Joseph Hernandez 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 21-44 Workorder: E206186

Date Received: 6/27/2022 8:15:00AM

Joseph Hernandez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/27/2022 8:15:00AM, under the Project Name: RDX 21-44.

The analytical test results summarized in this report with the Project Name: RDX 21-44 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

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

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Rayny Hagan

West Texas Midland/Odessa Area

Envirotech Web Address: www.envirotech-inc.com

# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SW01 0 - 4'	5
SW02 0 - 4'	6
SW03 0 - 4'	7
FS01 4'	8
FS02 4'	9
FS03 4'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

# **Sample Summary**

Γ	WPX Energy - Carlsbad	Project Name:	RDX 21-44	Domonto do
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	07/06/22 13:45

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 0 - 4'	E206186-01A	Soil	06/22/22	06/27/22	Glass Jar, 2 oz.
SW02 0 - 4'	E206186-02A	Soil	06/22/22	06/27/22	Glass Jar, 2 oz.
SW03 0 - 4'	E206186-03A	Soil	06/23/22	06/27/22	Glass Jar, 2 oz.
FS01 4'	E206186-04A	Soil	06/22/22	06/27/22	Glass Jar, 2 oz.
FS02 4'	E206186-05A	Soil	06/22/22	06/27/22	Glass Jar, 2 oz.
FS03 4'	E206186-06A	Soil	06/23/22	06/27/22	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/6/2022 1:45:41PM

# SW01 0 - 4'

E206186-01							
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2227044	
Benzene	ND	0.0250	1	06/28/22	07/05/22		
Ethylbenzene	ND	0.0250	1	06/28/22	07/05/22		
Toluene	ND	0.0250	1	06/28/22	07/05/22		
o-Xylene	ND	0.0250	1	06/28/22	07/05/22		
p,m-Xylene	ND	0.0500	1	06/28/22	07/05/22		
Total Xylenes	ND	0.0250	1	06/28/22	07/05/22		
Surrogate: 4-Bromochlorobenzene-PID		82.0 %	70-130	06/28/22	07/05/22		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2227044	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/22	07/05/22		
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.3 %	70-130	06/28/22	07/05/22		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2227053	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/28/22	07/01/22		
Oil Range Organics (C28-C36)	ND	50.0	1	06/28/22	07/01/22		
Surrogate: n-Nonane		140 %	50-200	06/28/22	07/01/22		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2227021	

20.0

203

06/27/22

06/30/22



Chloride

WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/6/2022 1:45:41PM

# SW02 0 - 4'

		E206186-02				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2227044
Benzene	ND	0.0250	1	06/28/22	07/05/22	
Ethylbenzene	ND	0.0250	1	06/28/22	07/05/22	
Toluene	ND	0.0250	1	06/28/22	07/05/22	
o-Xylene	ND	0.0250	1	06/28/22	07/05/22	
p,m-Xylene	ND	0.0500	1	06/28/22	07/05/22	
Total Xylenes	ND	0.0250	1	06/28/22	07/05/22	
Surrogate: 4-Bromochlorobenzene-PID		81.0 %	70-130	06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2227044
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/22	07/05/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.3 %	70-130	06/28/22	07/05/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2227053
Diesel Range Organics (C10-C28)	ND	25.0	1	06/28/22	07/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/28/22	07/01/22	
Surrogate: n-Nonane		131 %	50-200	06/28/22	07/01/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2227021
Chloride	268	20.0	1	06/27/22	06/30/22	



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/6/2022 1:45:41PM

# SW03 0 - 4'

		E206186-03				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2227044
Benzene	ND	0.0250	1	06/28/22	07/06/22	
Ethylbenzene	ND	0.0250	1	06/28/22	07/06/22	
Toluene	ND	0.0250	1	06/28/22	07/06/22	
o-Xylene	ND	0.0250	1	06/28/22	07/06/22	
p,m-Xylene	ND	0.0500	1	06/28/22	07/06/22	
Total Xylenes	ND	0.0250	1	06/28/22	07/06/22	
Surrogate: 4-Bromochlorobenzene-PID		80.7 %	70-130	06/28/22	07/06/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2227044
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/22	07/06/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.0 %	70-130	06/28/22	07/06/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2227053
Diesel Range Organics (C10-C28)	ND	25.0	1	06/28/22	07/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/28/22	07/01/22	
Surrogate: n-Nonane		119 %	50-200	06/28/22	07/01/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2227021
Chloride	ND	20.0	1	06/27/22	06/30/22	



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/6/2022 1:45:41PM

# FS01 4'

### E206186-04

		D 4				
Analyte	Result	Reporting Limit	Dilutio	n Prepared	Analyzed	Notes
Analyte	Kesun	Liillit	סווטווט	п гтератей	Allalyzed	INUIES
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2227044
Benzene	ND	0.0250	1	06/28/22	07/06/22	
Ethylbenzene	ND	0.0250	1	06/28/22	07/06/22	
Toluene	ND	0.0250	1	06/28/22	07/06/22	
o-Xylene	ND	0.0250	1	06/28/22	07/06/22	
p,m-Xylene	ND	0.0500	1	06/28/22	07/06/22	
Total Xylenes	ND	0.0250	1	06/28/22	07/06/22	
Surrogate: 4-Bromochlorobenzene-PID		81.0 %	70-130	06/28/22	07/06/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2227044
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/22	07/06/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.5 %	70-130	06/28/22	07/06/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2227053
Diesel Range Organics (C10-C28)	ND	25.0	1	06/28/22	07/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/28/22	07/01/22	
Surrogate: n-Nonane		137 %	50-200	06/28/22	07/01/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2227021
Chloride	2080	20.0	1	06/27/22	06/30/22	



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/6/2022 1:45:41PM

# FS02 4'

### E206186-05

		D				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2227044
Benzene	ND	0.0250	1	06/28/22	07/06/22	
Ethylbenzene	ND	0.0250	1	06/28/22	07/06/22	
Toluene	ND	0.0250	1	06/28/22	07/06/22	
o-Xylene	ND	0.0250	1	06/28/22	07/06/22	
p,m-Xylene	ND	0.0500	1	06/28/22	07/06/22	
Total Xylenes	ND	0.0250	1	06/28/22	07/06/22	
Surrogate: 4-Bromochlorobenzene-PID		82.5 %	70-130	06/28/22	07/06/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2227044
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/22	07/06/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.6 %	70-130	06/28/22	07/06/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2227053
Diesel Range Organics (C10-C28)	ND	25.0	1	06/28/22	07/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/28/22	07/01/22	
Surrogate: n-Nonane		136 %	50-200	06/28/22	07/01/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2227021
Chloride	4340	20.0	1	06/27/22	06/30/22	



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/6/2022 1:45:41PM

# FS03 4'

### E206186-06

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2227044
Benzene	ND	0.0250	1	06/28/22	07/06/22	
Ethylbenzene	ND	0.0250	1	06/28/22	07/06/22	
Toluene	ND	0.0250	1	06/28/22	07/06/22	
o-Xylene	ND	0.0250	1	06/28/22	07/06/22	
p,m-Xylene	ND	0.0500	1	06/28/22	07/06/22	
Total Xylenes	ND	0.0250	1	06/28/22	07/06/22	
Surrogate: 4-Bromochlorobenzene-PID		82.8 %	70-130	06/28/22	07/06/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2227044
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/22	07/06/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.5 %	70-130	06/28/22	07/06/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2227053
Diesel Range Organics (C10-C28)	ND	25.0	1	06/28/22	07/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/28/22	07/01/22	
Surrogate: n-Nonane		142 %	50-200	06/28/22	07/01/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2227021
Chloride	2890	20.0	1	06/27/22	06/30/22	



# **QC Summary Data**

		•						
WPX Energy - Carlsbad	Project Name:	RDX 21-44	Reported:					
5315 Buena Vista Dr	Project Number:	01058-0007						
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/6/2022 1:45:41PM					
VI. d. C I. EDI COMP								

Carlsbad NM, 88220		Project Manager:	Jo	seph Hernand	ez				7/6/2022 1:45:41PM	
Volatile Organics by EPA 8021B  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 (2227044-BLK1)							Prepared: 0	6/28/22 Aı	nalyzed: 07/05/22	
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	6.65		8.00		83.1	70-130				
LCS (2227044-BS1)							Prepared: 0	6/28/22 Aı	nalyzed: 07/05/22	
Benzene	5.42	0.0250	5.00		108	70-130				
Ethylbenzene	5.24	0.0250	5.00		105	70-130				
Foluene	5.63	0.0250	5.00		113	70-130				
o-Xylene	5.10	0.0250	5.00		102	70-130				
o,m-Xylene	10.6	0.0500	10.0		106	70-130				
Total Xylenes	15.7	0.0250	15.0		105	70-130				
Surrogate: 4-Bromochlorobenzene-PID	6.65		8.00		83.1	70-130				
LCS Dup (2227044-BSD1)							Prepared: 0	6/28/22 Aı	nalyzed: 07/05/22	
Benzene	5.85	0.0250	5.00		117	70-130	7.62	20		
Ethylbenzene	5.65	0.0250	5.00		113	70-130	7.66	20		
Foluene	6.09	0.0250	5.00		122	70-130	7.73	20		
o-Xylene	5.50	0.0250	5.00		110	70-130	7.44	20		
o,m-Xylene	11.4	0.0500	10.0		114	70-130	7.55	20		
Total Xylenes	16.9	0.0250	15.0		113	70-130	7.51	20		



Surrogate: 1-Chloro-4-fluorobenzene-FID

# **QC Summary Data**

WPX Energy - Carlsbad	Project Name:	RDX 21-44	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/6/2022 1:45:41PM

Carlsbad NM, 88220		Project Manager		seph Hernand	lez			7/6	/2022 1:45:41PM
	Non	halogenated	Organics l	by EPA 80	15D - G	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 (2227044-BLK1)						I	Prepared: 0	6/28/22 Analy	vzed: 07/05/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.48		8.00		81.0	70-130			
LCS (2227044-BS2)						I	Prepared: 0	6/28/22 Analy	zed: 07/05/22
Gasoline Range Organics (C6-C10)	41.6	20.0	50.0		83.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.52		8.00		81.6	70-130			
LCS Dup (2227044-BSD2)						I	Prepared: 0	6/28/22 Analy	zed: 07/05/22
Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130	3.93	20	

70-130

# **QC Summary Data**

WPX Energy - Carlsbad	Project Name:	RDX 21-44	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/6/2022 1:45:41PM

Carlsbad NM, 88220		Project Manage	r: Jos	seph Hernand	lez				7/6/2022 1:45:41PM
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2227053-BLK1)							Prepared: 0	6/28/22 An	alyzed: 06/30/22
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	58.7		50.0		117	50-200			
LCS (2227053-BS1)							Prepared: 0	6/28/22 An	alyzed: 06/30/22
Diesel Range Organics (C10-C28)	512	25.0	500		102	38-132			
urrogate: n-Nonane	56.5		50.0		113	50-200			
Matrix Spike (2227053-MS1)				Source:	E206184-	06	Prepared: 0	6/28/22 An	alyzed: 06/30/22
Diesel Range Organics (C10-C28)	642	25.0	500	ND	128	38-132			
urrogate: n-Nonane	71.0		50.0		142	50-200			
Matrix Spike Dup (2227053-MSD1)				Source:	E206184-	06	Prepared: 0	6/28/22 An	alyzed: 06/30/22
Diesel Range Organics (C10-C28)	643	25.0	500	ND	129	38-132	0.148	20	
urrogate: n-Nonane	71.8		50.0		144	50-200			



# **QC Summary Data**

WPX Energy - Carlsbad		Project Name:		DX 21-44					Reported:	
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number Project Manager		01058-0007 Joseph Hernandez					7/6/2022 1:45:41PM	
		Anions	by EPA	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 (2227021-BLK1)							Prepared: 0	)6/27/22 A	nalyzed: 06/29/22	
Chloride	ND	20.0								
LCS (2227021-BS1)							Prepared: 0	06/27/22 A	nalyzed: 06/29/22	
Chloride	250	20.0	250		99.8	90-110				
Matrix Spike (2227021-MS1)				Source:	E206184-	01	Prepared: 0	6/27/22 A	nalyzed: 06/29/22	
Chloride	257	40.0	250	ND	103	80-120				
Matrix Spike Dup (2227021-MSD1)				Source:	E206184-	01	Prepared: 0	6/27/22 A	nalyzed: 06/29/22	
Chloride	253	40.0	250	ND	101	80-120	1.44	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 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	07/06/22 13:45

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



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Client: W	/PX		7-040-17-17		Bill To				Lab	) Use	e Onl	٧			TA <sup>-</sup>		AT	EPA Pro	
	RDX 21-44	1			Attention: Jim Raley	IIYAII	Lab V	VO#	1125			Numl	oer	1D	2D	3D	Standard	CWA	SDW
	Manager:		ernandez		Address: 5315 Buena Vista Dr.				800	)	Oth	58	-0007				5 DAY		
Address:	: 3122 Nat	ional Par	ks HWY		City, State, Zip: Carlsbad, NM,	88220				А	nalys	is and	Method						RCR.
City, Stat	t <b>e, Zip:</b> Ca	rlsbad, N	M, 88220		Phone:				by										
	81-702-2				Email:jim.raley@dvn.com				ORO									State	
-	ernandez	@ensolu	m.com					pa	ORO/	21	09	0	0.00	ΣN			NM CO	UT AZ	TX
Report d	ue by:						Œ	reat	30/0	y 80	/ 826	601	Je 30		¥				In T
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID	Lab Numbe	Depth(ft)	Field Treated	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	ВСВОС			Remarks	
1400	6.22.22	S	1		SW01	1	0-4'							X			Incident	ID: nAPP21	155336
1430	6.22.22	S	1		SW02	2	0-4'							X			Cost C	entter:1061	1122001
1200	6.23.22	S	1	SW03		3	0-4'							X					
1500	6.22.22	S	1		FS01	4	4'							X					
1530	6.22.22	S	1	FS02		5	4'							X					
1230	6.23.22	S	1_	4 41:3	FS03	Co	4'	4						X		8			
	1384		77	P 1.															
					<i>(</i> )														
					Moras														
		IN.																	
Addition	al Instruc	tions:				La company		1						<u> </u>					-
					e. I am aware that tampering with or intentional	ly mislabelling the sam	ole location	on,									ceived on ice the da		oled or
				may be grounds fo	or legal action. Sampled by:	LBERT MOR	RAIO	T		_	receive	а раске	d in ice at an				less than 6 °C on sub	sequent days.	
Relinquish	ed by: (Sign	ature)	Date	Har M	216 Mayor March	Date 6 3	100	Time	52		Rece	eived	on ice:		ab Us		ily		
Relinquish	ed by: (Sign	atoff)	M bate	74-92 Time	150 Wetter Chi	Date 10/27	122	Time 8	15	-	T1			<u>T2</u>			<u></u>		
Relinquish	ed by: (Sign	ature)	Date	Time	Received by: (Signature)	Date		Time			AVG	Tem	p°c_	4					
				queous, <b>O</b> - Other		Contain	-							<del></del>		1101			



envirotechia

Printed: 6/28/2022 9:30:18AM

# **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	06/27/22	08:15		Work Order ID:	E206186
Phone:	(539) 573-4018	Date Logged In:	06/27/22	09:51		Logged In By:	Caitlin Christian
Email:		Due Date:		17:00 (4 day TAT)		,	
Chain of	Custody (COC)						
1. Does t	he sample ID match the COC?		Yes				
2. Does t	he number of samples per sampling site location mate	the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: <u>U</u>	<u>JPS</u>		
4. Was th	ne COC complete, i.e., signatures, dates/times, request	ed 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 disucssion.		Yes			Comment	s/Resolution	
Sample '	Turn Around Time (TAT)						
	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample	Cooler						
	sample cooler received?		Yes				
	was cooler received in good condition?		Yes				
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?						
	s, were custody/security seals intact?		No				
-	•	60 L <b>2</b> 0 G	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	received w/i 15	Yes				
13. If no	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
Sample	<u>Container</u>						
14. Are a	queous 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 1	non-VOC samples collected in the correct containers?		Yes				
19. Is the	appropriate volume/weight or number of sample contained	ers collected?	Yes				
Field La	<u>bel</u>						
	field sample labels filled out with the minimum infor	mation:					
	Sample ID?		Yes				
	Date/Time Collected?		Yes	'			
	Collectors name?		No				
	Preservation the COC or field labels indicate the samples were pro	namua 49	NI-				
		sserveu?	No				
	ample(s) correctly preserved?  of filteration required and/or requested for dissolved m	nto1a9	NA Na				
	•	ctais:	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 analyst	zed'?	NA				
Subcont	ract Laboratory						
28. Are s	amples required to get sent to a subcontract laborator	y?	No				
29. Was	a subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab	o: na		
Client I	nstruction						
							<u> </u>

Report to:

Joseph Hernandez







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 21-44

Work Order: E206230

Job Number: 01058-0007

Received: 6/29/2022

Revision: 5

Report Reviewed By:

Walter Hinchman Laboratory Director 7/11/22

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.

Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 7/11/22

Joseph Hernandez 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 21-44 Workorder: E206230

Date Received: 6/29/2022 8:00:00AM

Joseph Hernandez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/29/2022 8:00:00AM, under the Project Name: RDX 21-44.

The analytical test results summarized in this report with the Project Name: RDX 21-44 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** 

Sample Custody Officer Office: 505-632-1881

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Rayny Hagan Technical Representative

West Texas Midland/Odessa Area

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Envirotech Web Address: www.envirotech-inc.com

# **Table of Contents**

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS04 4'	5
FS05 4'	6
FS06 4'	7
FS07 4'	8
QC Summary Data	9
QC - Volatile Organic Compounds by EPA 8260B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

# Sample Summary

WPX Energy - Carlsbad	Project Name: RDX 21-44		Donoutode	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:	
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	07/11/22 14:48	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS04 4'	E206230-01A	Soil	06/27/22	06/29/22	Glass Jar, 4 oz.
FS05 4'	E206230-02A	Soil	06/27/22	06/29/22	Glass Jar, 4 oz.
FS06 4'	E206230-03A	Soil	06/27/22	06/29/22	Glass Jar, 4 oz.
FS07 4'	E206230-04A	Soil	06/27/22	06/29/22	Glass Jar, 4 oz.



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/11/2022 2:48:14PM

# FS04 4' E206230-01

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2227139
Benzene	ND	0.0250		1	07/01/22	07/06/22	
Ethylbenzene	ND	0.0250		1	07/01/22	07/06/22	
Toluene	ND	0.0250		1	07/01/22	07/06/22	
o-Xylene	ND	0.0250		1	07/01/22	07/06/22	
p,m-Xylene	ND	0.0500		1	07/01/22	07/06/22	
Total Xylenes	ND	0.0250		1	07/01/22	07/06/22	
Surrogate: Bromofluorobenzene		97.2 %	70-130		07/01/22	07/06/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		07/01/22	07/06/22	
Surrogate: Toluene-d8		94.7 %	70-130		07/01/22	07/06/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2227139
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/01/22	07/06/22	
Surrogate: Bromofluorobenzene		97.2 %	70-130		07/01/22	07/06/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		07/01/22	07/06/22	
Surrogate: Toluene-d8		94.7 %	70-130		07/01/22	07/06/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2228002
Diesel Range Organics (C10-C28)	ND	25.0		1	07/05/22	07/05/22	
Oil Range Organics (C28-C36)	ND	50.0		1	07/05/22	07/05/22	
Surrogate: n-Nonane		114 %	50-200		07/05/22	07/05/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2228006
Chloride	1370	20.0		1	07/05/22	07/06/22	



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/11/2022 2:48:14PM

# FS05 4'

		E206230-02					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2227139
Benzene	ND	0.0250	1	1	07/01/22	07/06/22	
Ethylbenzene	ND	0.0250		1	07/01/22	07/06/22	
Toluene	ND	0.0250		1	07/01/22	07/06/22	
o-Xylene	ND	0.0250		1	07/01/22	07/06/22	
p,m-Xylene	ND	0.0500		1	07/01/22	07/06/22	
Total Xylenes	ND	0.0250	1	1	07/01/22	07/06/22	
Surrogate: Bromofluorobenzene		98.5 %	70-130		07/01/22	07/06/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		07/01/22	07/06/22	
Surrogate: Toluene-d8		95.5 %	70-130		07/01/22	07/06/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2227139
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/01/22	07/06/22	
Surrogate: Bromofluorobenzene		98.5 %	70-130		07/01/22	07/06/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		07/01/22	07/06/22	
Surrogate: Toluene-d8		95.5 %	70-130		07/01/22	07/06/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	ЛL		Batch: 2228002
Diesel Range Organics (C10-C28)	ND	25.0		1	07/05/22	07/05/22	
Oil Range Organics (C28-C36)	ND	50.0		1	07/05/22	07/05/22	
Surrogate: n-Nonane		117 %	50-200		07/05/22	07/05/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2228006
Chloride	463	20.0		1	07/05/22	07/06/22	



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/11/2022 2:48:14PM

# FS06 4' E206230-03

		E200230-03				
		Reporting				
Analyte	Result	Limit	Diluti	ion Prepare	d Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	Analyst: IY		Batch: 2227139
Benzene	ND	0.0250	1	07/01/22	2 07/06/22	
Ethylbenzene	ND	0.0250	1	07/01/22	2 07/06/22	
Toluene	ND	0.0250	1	07/01/22	2 07/06/22	
o-Xylene	ND	0.0250	1	07/01/22	2 07/06/22	
p,m-Xylene	ND	0.0500	1	07/01/22	2 07/06/22	
Total Xylenes	ND	0.0250	1	07/01/22	2 07/06/22	
Surrogate: Bromofluorobenzene		95.9 %	70-130	07/01/22	2 07/06/22	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	07/01/22	2 07/06/22	
Surrogate: Toluene-d8		95.1 %	70-130	07/01/22	2 07/06/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2227139
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/01/22	2 07/06/22	
Surrogate: Bromofluorobenzene		95.9 %	70-130	07/01/22	2 07/06/22	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	07/01/22	2 07/06/22	
Surrogate: Toluene-d8		95.1 %	70-130	07/01/22	2 07/06/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2228002
Diesel Range Organics (C10-C28)	ND	25.0	1	07/05/22	2 07/06/22	_
Oil Range Organics (C28-C36)	ND	50.0	1	07/05/22	2 07/06/22	
Surrogate: n-Nonane		117 %	50-200	07/05/22	2 07/06/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2228006
Chloride	959	20.0	1	07/05/22	2 07/06/22	



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/11/2022 2:48:14PM

# FS07 4' E206230-04

Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
	mg/kg	mg/kg		Analyst:	•	1 mary 2ea	Batch: 2227139
Volatile Organic Compounds by EPA 8260B  Benzene	ND	0.0250	1	1	07/01/22	07/06/22	Batch. 222/13)
Ethylbenzene	ND	0.0250	1	I	07/01/22	07/06/22	
Toluene	ND	0.0250	1	1	07/01/22	07/06/22	
o-Xylene	ND	0.0250	1	1	07/01/22	07/06/22	
p,m-Xylene	ND	0.0500	1	1	07/01/22	07/06/22	
Total Xylenes	ND	0.0250	1	l	07/01/22	07/06/22	
Surrogate: Bromofluorobenzene		95.3 %	70-130		07/01/22	07/06/22	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130		07/01/22	07/06/22	
Surrogate: Toluene-d8		94.2 %	70-130		07/01/22	07/06/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2227139
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	07/01/22	07/06/22	
Surrogate: Bromofluorobenzene		95.3 %	70-130		07/01/22	07/06/22	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130		07/01/22	07/06/22	
Surrogate: Toluene-d8		94.2 %	70-130		07/01/22	07/06/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: JL		Batch: 2228002
Diesel Range Organics (C10-C28)	ND	25.0	1	1	07/05/22	07/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	1	07/05/22	07/06/22	
Surrogate: n-Nonane		115 %	50-200		07/05/22	07/06/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg mg/kg		Analyst: RAS			Batch: 2228006
Chloride	3880	40.0	2	2	07/05/22	07/06/22	



WPX Energy - Carlsbad Project Name: RDX 21-44 Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Joseph Hernandez 7/11/2022 2:48:14PM

Carlsbad NM, 88220		Project Manage	r: Jo	seph Hernand	lez			7/1	1/2022 2:48:14PM
	Vo	olatile Organ	ic Compo	unds by EI	PA 82601	В			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2227139-BLK1)							Prepared: 0'	7/01/22 Anal	yzed: 07/06/22
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	0.478		0.500		95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.480		0.500		96.0	70-130			
LCS (2227139-BS1)							Prepared: 0'	7/01/22 Anal	yzed: 07/06/22
Benzene	2.36	0.0250	2.50		94.3	70-130			
Ethylbenzene	2.38	0.0250	2.50		95.2	70-130			
Toluene	2.35	0.0250	2.50		93.8	70-130			
o-Xylene	2.47	0.0250	2.50		98.9	70-130			
p,m-Xylene	4.83	0.0500	5.00		96.5	70-130			
Total Xylenes	7.30	0.0250	7.50		97.3	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			
LCS Dup (2227139-BSD1)							Prepared: 0'	7/01/22 Anal	yzed: 07/06/22
Benzene	2.23	0.0250	2.50		89.0	70-130	5.83	23	
Ethylbenzene	2.30	0.0250	2.50		92.0	70-130	3.42	27	
Toluene	2.26	0.0250	2.50		90.3	70-130	3.82	24	
o-Xylene	2.40	0.0250	2.50		96.0	70-130	3.00	27	
p,m-Xylene	4.66	0.0500	5.00		93.1	70-130	3.64	27	
Total Xylenes	7.05	0.0250	7.50		94.1	70-130	3.42	27	
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			

0.500

101

70-130

0.503



Surrogate: Toluene-d8

WPX Energy - Carlsbad Project Name: RDX 21-44

5315 Buena Vista Dr Project Number: 01058-0007

Carlsbad NM, 88220 Project Manager: Joseph Hernandez 7/11/2022 2:48:14PM

Nonhalogenated	Organics by	· EPA	. 8015D -	GRO

Analyst: IY

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

Blank (2227139-BLK1)						Prepared: 07	7/01/22 An	alyzed: 07/06/22
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.478		0.500	95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500	102	70-130			
Surrogate: Toluene-d8	0.480		0.500	96.0	70-130			
LCS (2227139-BS2)						Prepared: 07	7/01/22 An	alyzed: 07/06/22
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	90.4	70-130			
Surrogate: Bromofluorobenzene	0.507		0.500	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500	99.8	70-130			
Surrogate: Toluene-d8	0.493		0.500	98.6	70-130			
LCS Dup (2227139-BSD2)						Prepared: 07	7/01/22 An	alyzed: 07/06/22
Gasoline Range Organics (C6-C10)	44.4	20.0	50.0	88.9	70-130	1.76	20	
Surrogate: Bromofluorobenzene	0.506		0.500	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500	97.0	70-130			
Surrogate: Toluene-d8	0.493		0.500	98.6	70-130			



WPX Energy - Carlsbad	Project Name:	RDX 21-44	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/11/2022 2:48:14PM

Carlsbad NM, 88220		Project Manage	r: Jo	seph Hernand	lez				7/11/2022 2:48:14PN	
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 (2228002-BLK1)							Prepared: 0	7/05/22 Ar	nalyzed: 07/05/22	
Diesel Range Organics (C10-C28)	ND	25.0								
Dil Range Organics (C28-C36)	ND	50.0								
urrogate: n-Nonane	56.9		50.0		114	50-200				
LCS (2228002-BS1)							Prepared: 0	7/05/22 Ar	nalyzed: 07/05/22	
Diesel Range Organics (C10-C28)	508	25.0	500		102	38-132				
urrogate: n-Nonane	56.0		50.0		112	50-200				
Matrix Spike (2228002-MS1)				Source:	E206231-	01	Prepared: 07/05/22 Analyzed: 07/05			
Diesel Range Organics (C10-C28)	614	50.0	500	ND	123	38-132				
urrogate: n-Nonane	72.1		50.0		144	50-200				
Matrix Spike Dup (2228002-MSD1)				Source:	E206231-	01	Prepared: 0	7/05/22 Ar	nalyzed: 07/05/22	
Diesel Range Organics (C10-C28)	620	50.0	500	ND	124	38-132	0.950	20		
urrogate: n-Nonane	71.2		50.0		142	50-200				



WPX Energy - Carlsbad		Project Name:		DX 21-44					Reported:
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager		058-0007 seph Hernand	lez				7/11/2022 2:48:14PM
·		Anions	by EPA 3	00.0/9056	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 (2228006-BLK1)							Prepared: 0	7/05/22 A	nalyzed: 07/06/22
Chloride	ND	20.0							
LCS (2228006-BS1)							Prepared: 0	7/05/22 A	analyzed: 07/06/22
Chloride	249	20.0	250		99.6	90-110			
Matrix Spike (2228006-MS1)				Source:	E206229-0	)1	Prepared: 0	7/05/22 A	analyzed: 07/06/22
Chloride	307	40.0	250	55.2	101	80-120			
Matrix Spike Dup (2228006-MSD1)				Source:	E206229-0	)1	Prepared: 0	7/05/22 A	analyzed: 07/06/22
Chloride	294	40.0	250	55.2	95.7	80-120	4.25	20	

#### QC Summary Report Comment:

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



### **Definitions and Notes**

WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	07/11/22 14:48

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



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	RDX 21-44				Attention: Jim Raley	3.4	Lab V	VO#					ber	1D	2D	3D	Standard	CWA	SDWA
roject N	/lanager: .	loseph H	ernandez		Address: 5315 Buena Vista Dr		Eac	OCO	a	50	Old	158	ber -0507				5 Day TAT		
ddress:	3122 Nat	ional Par	ks HWY	1/2	City, State, Zip: Carlsbad, NM	, 88220				Д	nalys	is an	d Metho	d					RCRA
	t <b>e, Zip:</b> Ca		M, 88220		Phone:				by by										
	81-702-23				Email:jim.raley@dvn.com				ORC									State	
	ernandez	@ensolu	m.com					eq	JRO/	121	09	0	0.00	Σ			NM CO	UT AZ	TX
eport d	ue by:						£	reat	RO/I	y 80	y 82(	601	Je 3(		Ķ				
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID	Lab Number	Depth(ft)	Field Treated	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	верос			Remarks	s
15:00	6.27.22	S	1		FS04		4'							X			Incident	ID: nAPP2	11553369
15:10	6.27.22	S	1		FS05	2	4'							X			Cost C	entter:106	1122001
15:30	6.27.22	S	1		FS06	3	4'			•				X					
15:45	6.27.22	S	1		FS07	4	4'							X					
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Printed: 6/29/2022 5:08:41PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	06/29/22	08:00	Work Order ID:	E206230
Phone:	(539) 573-4018	Date Logged In:	06/29/22	10:10	Logged In By:	Caitlin Christian
Email:	jhernandez@ensolum.com	Due Date:	07/06/22	17:00 (4 day TAT)		
Chain of	Custody (COC)					
			37			
	he sample ID match the COC? he number of samples per sampling site location matc	h the COC	Yes			
	camples dropped off by client or carrier?	in the coc	Yes Yes	Comion Courier		
	e COC complete, i.e., signatures, dates/times, request	ed analyses?	Yes	Carrier: <u>Courier</u>		
	ill samples received within holding time?	ed unary ses.	Yes			
S. WOIC C	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion		103		Comment	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			
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, 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 <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 contained	ers collected?	Yes			
Field La	bel					
	field sample labels filled out with the minimum infor	mation:				
S	ample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		No			
	Preservation	10				
	the COC or field labels indicate the samples were pre	eserved?	No			
	ample(s) correctly preserved?	. 1.0	NA			
	filteration required and/or requested for dissolved me	etais?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphase		No			
27. If yes	s, does the COC specify which phase(s) is to be analyze	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:

Joseph Hernandez







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 21-44

Work Order: E207003

Job Number: 01058-0007

Received: 7/1/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/8/22

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.

Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 7/8/22

Joseph Hernandez 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 21-44 Workorder: E207003

Date Received: 7/1/2022 10:02:00AM

Joseph Hernandez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/1/2022 10:02:00AM, under the Project Name: RDX 21-44.

The analytical test results summarized in this report with the Project Name: RDX 21-44 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

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**Alexa Michaels** 

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labadmin@envirotech-inc.com

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Cell: 505-320-4759

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West Texas Midland/Odessa Area Rayny Hagan

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

Envirotech Web Address: www.envirotech-inc.com

# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SW04	5
SW05	6
FS08	7
FS09	8
FS10	9
FS11	10
QC Summary Data	11
QC - Volatile Organic Compounds by EPA 8260B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

### Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 21-44	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	Reporteu:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	07/08/22 13:38

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SW04	E207003-01A Soil	06/29/22	07/01/22	Glass Jar, 4 oz.
SW05	E207003-02A Soil	06/29/22	07/01/22	Glass Jar, 4 oz.
FS08	E207003-03A Soil	06/29/22	07/01/22	Glass Jar, 4 oz.
FS09	E207003-04A Soil	06/29/22	07/01/22	Glass Jar, 4 oz.
FS10	E207003-05A Soil	06/29/22	07/01/22	Glass Jar, 4 oz.
FS11	E207003-06A Soil	06/29/22	07/01/22	Glass Jar, 4 oz.



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/8/2022 1:38:29PM

#### SW04

#### E207003-01

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2228012
Benzene	ND	0.0250		1	07/05/22	07/07/22	
Ethylbenzene	ND	0.0250		1	07/05/22	07/07/22	
Toluene	ND	0.0250		1	07/05/22	07/07/22	
o-Xylene	ND	0.0250		1	07/05/22	07/07/22	
p,m-Xylene	ND	0.0500		1	07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1	1	07/05/22	07/07/22	
Surrogate: Bromofluorobenzene		94.3 %	70-130		07/05/22	07/07/22	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		07/05/22	07/07/22	
Surrogate: Toluene-d8		95.1 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2228012
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/05/22	07/07/22	
Surrogate: Bromofluorobenzene		94.3 %	70-130		07/05/22	07/07/22	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		07/05/22	07/07/22	
Surrogate: Toluene-d8		95.1 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2228033
Diesel Range Organics (C10-C28)	ND	25.0		1	07/07/22	07/07/22	
Oil Range Organics (C28-C36)	ND	50.0		1	07/07/22	07/07/22	
Surrogate: n-Nonane		110 %	50-200		07/07/22	07/07/22	
					D.4.0		D ( 1 2220020
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2228039



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/8/2022 1:38:29PM

#### SW05

#### E207003-02

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2228012
Benzene	ND	0.0250	1		07/05/22	07/07/22	
Ethylbenzene	ND	0.0250	1		07/05/22	07/07/22	
Toluene	ND	0.0250	1		07/05/22	07/07/22	
o-Xylene	ND	0.0250	1		07/05/22	07/07/22	
p,m-Xylene	ND	0.0500	1		07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1		07/05/22	07/07/22	
Surrogate: Bromofluorobenzene		95.6 %	70-130		07/05/22	07/07/22	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		07/05/22	07/07/22	
Surrogate: Toluene-d8		97.3 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2228012
Gasoline Range Organics (C6-C10)	ND	20.0	1		07/05/22	07/07/22	
Surrogate: Bromofluorobenzene		95.6 %	70-130		07/05/22	07/07/22	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		07/05/22	07/07/22	
Surrogate: Toluene-d8		97.3 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2228033
Diesel Range Organics (C10-C28)	ND	25.0	1		07/07/22	07/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1		07/07/22	07/07/22	
Surrogate: n-Nonane		105 %	50-200		07/07/22	07/07/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2228039
11110119 8 7 22112 0 0 1 0 7 9 0 0 1 2							



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/8/2022 1:38:29PM

#### FS08

12.0	070	103	0.0
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		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2228012
Benzene	ND	0.0250	1	1	07/05/22	07/07/22	
Ethylbenzene	ND	0.0250	1	1	07/05/22	07/07/22	
Toluene	ND	0.0250	1	1	07/05/22	07/07/22	
o-Xylene	ND	0.0250	1	1	07/05/22	07/07/22	
p,m-Xylene	ND	0.0500	1	1	07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1	1	07/05/22	07/07/22	
Surrogate: Bromofluorobenzene		91.3 %	70-130		07/05/22	07/07/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		07/05/22	07/07/22	
Surrogate: Toluene-d8		93.4 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2228012
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	07/05/22	07/07/22	
Surrogate: Bromofluorobenzene		91.3 %	70-130		07/05/22	07/07/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		07/05/22	07/07/22	
Surrogate: Toluene-d8		93.4 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	Л		Batch: 2228033
Diesel Range Organics (C10-C28)	ND	25.0	1	1	07/07/22	07/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	1	07/07/22	07/07/22	
Surrogate: n-Nonane		107 %	50-200		07/07/22	07/07/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2228039
Amons by ETA 500.0/7030A							



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/8/2022 1:38:29PM

#### FS09

#### E207003-04

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2228012
Benzene	ND	0.0250	1	l	07/05/22	07/07/22	
Ethylbenzene	ND	0.0250	1	l	07/05/22	07/07/22	
Toluene	ND	0.0250	1	l	07/05/22	07/07/22	
o-Xylene	ND	0.0250	1	1	07/05/22	07/07/22	
p,m-Xylene	ND	0.0500	1	1	07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1	l	07/05/22	07/07/22	
Surrogate: Bromofluorobenzene		94.1 %	70-130		07/05/22	07/07/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		07/05/22	07/07/22	
Surrogate: Toluene-d8		94.4 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2228012
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	07/05/22	07/07/22	
Surrogate: Bromofluorobenzene		94.1 %	70-130		07/05/22	07/07/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		07/05/22	07/07/22	
Surrogate: Toluene-d8		94.4 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	л		Batch: 2228033
Diesel Range Organics (C10-C28)	ND	25.0	1		07/07/22	07/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	1	07/07/22	07/07/22	
Surrogate: n-Nonane		105 %	50-200		07/07/22	07/07/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2228039
					·	07/07/22	



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/8/2022 1:38:29PM

#### FS10 E207003-05

Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
maryce	Result	Lillit	Dilu	LIUII	1 repareu	Anaryzed	rvotes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2228012
Benzene	ND	0.0250	1		07/05/22	07/07/22	
Ethylbenzene	ND	0.0250	1		07/05/22	07/07/22	
Toluene	ND	0.0250	1		07/05/22	07/07/22	
o-Xylene	ND	0.0250	1		07/05/22	07/07/22	
p,m-Xylene	ND	0.0500	1		07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1		07/05/22	07/07/22	
Surrogate: Bromofluorobenzene		93.6 %	70-130		07/05/22	07/07/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		07/05/22	07/07/22	
Surrogate: Toluene-d8		95.5 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2228012
Gasoline Range Organics (C6-C10)	ND	20.0	1		07/05/22	07/07/22	
Surrogate: Bromofluorobenzene		93.6 %	70-130		07/05/22	07/07/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		07/05/22	07/07/22	
Surrogate: Toluene-d8		95.5 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: .	JL		Batch: 2228033
Diesel Range Organics (C10-C28)	ND	25.0	1		07/07/22	07/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1		07/07/22	07/08/22	
Surrogate: n-Nonane		100 %	50-200		07/07/22	07/08/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2228039
Chloride	1630	20.0	1		07/07/22	07/07/22	



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/8/2022 1:38:29PM

#### FS11 E207003-06

Analyte	Result	Reporting Limit		lution	Prepared	Analyzed	Notes
			Di	Analyst		Amaryzed	Batch: 2228012
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Allalyst		05/05/22	Batch: 2228012
Benzene	ND	0.0250		1	07/05/22	07/07/22	
Ethylbenzene	ND	0.0250		1	07/05/22	07/07/22	
Toluene	ND	0.0250		1	07/05/22	07/07/22	
o-Xylene	ND	0.0250		1	07/05/22	07/07/22	
p,m-Xylene	ND	0.0500		1	07/05/22	07/07/22	
Total Xylenes	ND	0.0250		1	07/05/22	07/07/22	
Surrogate: Bromofluorobenzene		93.4 %	70-130		07/05/22	07/07/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		07/05/22	07/07/22	
Surrogate: Toluene-d8		94.7 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2228012
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/05/22	07/07/22	
Surrogate: Bromofluorobenzene		93.4 %	70-130		07/05/22	07/07/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		07/05/22	07/07/22	
Surrogate: Toluene-d8		94.7 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: ЛL		Batch: 2228033
Diesel Range Organics (C10-C28)	ND	25.0		1	07/07/22	07/08/22	
Oil Range Organics (C28-C36)	ND	50.0		1	07/07/22	07/08/22	
Surrogate: n-Nonane		104 %	50-200		07/07/22	07/08/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: RAS		Batch: 2228039
Chloride	2260	20.0		1	07/07/22	07/07/22	



WPX Energy - Carlsbad Project Name: RDX 21-44 Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Joseph Hernandez 7/8/2022 1:38:29PM

Result   Limit   Level   Result   Result   Recolumnts   RPD   Limit   RPD   Limit   RPD   Limit   RPD   Recolumnts   RPD   Re	Carlsbad NM, 88220		Project Manage	r: Jo	seph Hernand	iez				8/2022 1:38:29PM
Result   Limit   Level   Result   Rec   Limits   RPD   Limit   Limits   mgkg		Vo	olatile Organ	ic Compo	unds by EI	PA 82601	В			Analyst: IY
Sank (2228012-BLK1)	Analyte	Result				Rec			Limit	
ND		mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Mylenezene   ND   0.0250   N	Blank (2228012-BLK1)							Prepared: 0'	7/05/22 Anal	yzed: 07/07/22
ND	Benzene		0.0250							
ND   0.0250   ND   0.0500   ND   0.0500   ND   0.0500   ND   0.0500   ND   0.0500   ND   0.0500   ND   0.0250   ND   0.0250   ND   0.0250   ND   0.0250   ND   0.0250   ND   0.0500	Ethylbenzene		0.0250							
ND   0.0500   ND   0.0250	Toluene		0.0250							
ND   0.0250   ND   0.0250   ND   0.0250   ND   0.0260   ND   ND   0.0260   ND   ND   ND   ND   ND   ND   ND   N	o-Xylene									
### 1.50	p,m-Xylene									
Prepared: 07/05/22   Analyzed: 07/07/22	Total Xylenes	ND	0.0250							
Prepared: 07/05/22   Analyzed: 07/07/22	Surrogate: Bromofluorobenzene	0.475		0.500		95.0	70-130			
Prepared: 07/05/22   Analyzed: 07/07/22	Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
enzene 2.13 0.0250 2.50 85.4 70-130 hlybenzene 2.15 0.0250 2.50 86.0 70-130 hlybenzene 2.15 0.0250 2.50 85.8 70-130 hlybenzene 2.15 0.0250 2.50 85.8 70-130 hlybenzene 2.15 0.0250 2.50 90.5 70-130 hlybenzene 2.26 0.0250 2.50 90.5 70-130 hlybenzene 4.41 0.0500 5.00 88.3 70-130 hlybenzene 4.41 0.0500 5.00 88.3 70-130 hlybenzene 4.41 0.0500 5.00 89.0 70-130 hlybenzene 4.59 0.500 96.1 70-130 hlybenzene 4.59 0.0250 2.50 89.0 70-130 hlybenzene 4.59 0.0500 2.50 89.0 70-130 hlybenzene 4.59 0.0500 2.50 89.3 70-130 4.21 27 hlybenzene 4.59 0.0500 2.50 89.3 70-130 4.02 24 hlybenzene 4.59 0.0500 5.00 91.9 70-130 3.96 27 hlybenzene 6.94 0.0250 7.50 92.5 70-130 3.83 27 hlybenzene 70-130 4.0250 70-130 7	Surrogate: Toluene-d8	0.482		0.500		96.4	70-130			
Anylbenzene   2.15   0.0250   2.50   86.0   70-130   1.5	LCS (2228012-BS1)							Prepared: 0'	7/05/22 Anal	yzed: 07/07/22
Solution   2.15   0.0250   2.50   85.8   70-130	Benzene	2.13	0.0250	2.50		85.4	70-130			
Xylene   2.26   0.0250   2.50   90.5   70-130	Ethylbenzene	2.15	0.0250	2.50		86.0	70-130			
Mark	Toluene	2.15	0.0250	2.50		85.8	70-130			
stal Xylenes       6.68       0.0250       7.50       89.0       70-130         urrogate: Bromofluorobenzene       0.511       0.500       102       70-130         urrogate: 1,2-Dichloroethane-d4       0.481       0.500       96.1       70-130         urrogate: Toluene-d8       0.504       0.500       101       70-130         CCS Dup (2228012-BSD1)         Prepared: 07/05/22 Analyzed: 07/07/22         enzene       2.22       0.0250       2.50       89.0       70-130       4.11       23         thylbenzene       2.24       0.0250       2.50       89.7       70-130       4.21       27         sluene       2.23       0.0250       2.50       89.3       70-130       4.02       24         Xylene       2.34       0.0250       2.50       93.8       70-130       3.56       27         m-Xylene       4.59       0.0500       5.00       91.9       70-130       3.96       27         otal Xylenes       6.94       0.0250       7.50       92.5       70-130       3.83       27         urrogate: Bromofluorobenzene       0.504       0.500       101       70-130	o-Xylene	2.26	0.0250	2.50		90.5	70-130			
### 10.500 ### 10.2 ### 70-130 ####################################	o,m-Xylene	4.41	0.0500	5.00		88.3	70-130			
### Prepared: 0.500   96.1   70-130   ####################################	Total Xylenes	6.68	0.0250	7.50		89.0	70-130			
CS Dup (2228012-BSD1)   Prepared: 07/05/22   Analyzed: 07/07/22	Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
CS Dup (2228012-BSD1)   Prepared: 07/05/22   Analyzed: 07/07/22	Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
enzene 2.22 0.0250 2.50 89.0 70-130 4.11 23 thylbenzene 2.24 0.0250 2.50 89.7 70-130 4.21 27 solutene 2.23 0.0250 2.50 89.3 70-130 4.02 24 Xylene 2.34 0.0250 2.50 89.3 70-130 3.56 27 m-Xylene 4.59 0.0500 5.00 91.9 70-130 3.96 27 stal Xylenes 6.94 0.0250 7.50 92.5 70-130 3.83 27 urrogate: Bromofluorobenzene 0.504 0.500 101 70-130	Surrogate: Toluene-d8	0.504		0.500		101	70-130			
hylbenzene 2.24 0.0250 2.50 89.7 70-130 4.21 27 sluene 2.23 0.0250 2.50 89.3 70-130 4.02 24 Xylene 2.34 0.0250 2.50 93.8 70-130 3.56 27 m-Xylene 4.59 0.0500 5.00 91.9 70-130 3.96 27 stal Xylenes 6.94 0.0250 7.50 92.5 70-130 3.83 27 urrogate: Bromofluorobenzene 0.504 0.500 101 70-130	LCS Dup (2228012-BSD1)							Prepared: 0'	7/05/22 Anal	yzed: 07/07/22
thylbenzene 2.24 0.0250 2.50 89.7 70-130 4.21 27 soluene 2.23 0.0250 2.50 89.3 70-130 4.02 24 Xylene 2.34 0.0250 2.50 93.8 70-130 3.56 27 m-Xylene 4.59 0.0500 5.00 91.9 70-130 3.96 27 stal Xylenes 6.94 0.0250 7.50 92.5 70-130 3.83 27 urrogate: Bromofluorobenzene 0.504 0.500 10.500 10.1 70-130	Benzene	2.22	0.0250	2.50		89.0	70-130	4.11	23	
Xylene     2.34     0.0250     2.50     93.8     70-130     3.56     27       m-Xylene     4.59     0.0500     5.00     91.9     70-130     3.96     27       otal Xylenes     6.94     0.0250     7.50     92.5     70-130     3.83     27       urrogate: Bromofluorobenzene     0.504     0.500     101     70-130	Ethylbenzene	2.24		2.50		89.7	70-130	4.21	27	
Markylene 4.59 0.0500 5.00 91.9 70-130 3.96 27  otal Xylenes 6.94 0.0250 7.50 92.5 70-130 3.83 27  urrogate: Bromofluorobenzene 0.504 0.500 101 70-130	Toluene	2.23	0.0250	2.50		89.3	70-130	4.02	24	
otal Xylenes         6.94         0.0250         7.50         92.5         70-130         3.83         27           urrogate: Bromofluorobenzene         0.504         0.500         101         70-130	o-Xylene	2.34	0.0250	2.50		93.8	70-130	3.56	27	
urrogate: Bromofluorobenzene 0.504 0.500 101 70-130	p,m-Xylene	4.59	0.0500	5.00		91.9	70-130	3.96	27	
**************************************	Total Xylenes	6.94	0.0250	7.50		92.5	70-130	3.83	27	
rrogate: 1.2-Dichloroethane-d4 0.471 0.500 94.1 70-130	Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
	Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			

0.500

70-130

0.497



Surrogate: Toluene-d8

WPX Energy - Carlsbad Project Name: RDX 21-44 Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Joseph Hernandez 7/8/2022 1:38:29PM

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

Analyst: IY

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

Blank (2228012-BLK1)						Prepared: 0'	7/05/22 Aı	nalyzed: 07/07/22
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.475		0.500	95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500	99.8	70-130			
Surrogate: Toluene-d8	0.482		0.500	96.4	70-130			
LCS (2228012-BS2)						Prepared: 0	7/05/22 Aı	nalyzed: 07/07/22
Gasoline Range Organics (C6-C10)	40.6	20.0	50.0	81.3	70-130			
Surrogate: Bromofluorobenzene	0.491		0.500	98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500	96.8	70-130			
Surrogate: Toluene-d8	0.494		0.500	98.8	70-130			
LCS Dup (2228012-BSD2)						Prepared: 0	7/05/22 Aı	nalyzed: 07/07/22
Gasoline Range Organics (C6-C10)	43.5	20.0	50.0	87.0	70-130	6.78	20	
Surrogate: Bromofluorobenzene	0.495		0.500	99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500	97.0	70-130			
Surrogate: Toluene-d8	0.504		0.500	101	70-130			



WPX Energy - Carlsbad	Project Name:	RDX 21-44	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/8/2022 1:38:29PM

Carlsbad NM, 88220		Project Manage	r: Jos	seph Hernand	lez				7/8/2022 1:38:29PM
	Nonhal	logenated Or	ganics by l	EPA 80151	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 (2228033-BLK1)							Prepared: 0	7/07/22 An	alyzed: 07/07/22
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	52.4		50.0		105	50-200			
LCS (2228033-BS1)							Prepared: 0	7/07/22 An	alyzed: 07/07/22
Diesel Range Organics (C10-C28)	450	25.0	500		90.0	38-132			
urrogate: n-Nonane	46.8		50.0		93.5	50-200			
Matrix Spike (2228033-MS1)				Source:	E207004-	01	Prepared: 0	7/07/22 An	alyzed: 07/07/22
Diesel Range Organics (C10-C28)	459	25.0	500	ND	91.7	38-132			
urrogate: n-Nonane	50.9		50.0		102	50-200			
Matrix Spike Dup (2228033-MSD1)				Source:	E207004-	01	Prepared: 0	7/07/22 An	alyzed: 07/07/22
Diesel Range Organics (C10-C28)	477	25.0	500	ND	95.5	38-132	4.01	20	
'urrogate: n-Nonane	53.5		50.0		107	50-200			



WPX Energy - Carlsbad		Project Name:		DX 21-44					Reported:
5315 Buena Vista Dr		Project Number		1058-0007					
Carlsbad NM, 88220		Project Manager	r: Jo	seph Hernand	lez				7/8/2022 1:38:29PM
		Anions	by EPA 3	300.0/9056	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 (2228039-BLK1)							Prepared: 0	7/07/22 A	nalyzed: 07/07/22
Chloride	ND	20.0							
LCS (2228039-BS1)							Prepared: 0	7/07/22 A	nalyzed: 07/07/22
Chloride	245	20.0	250		98.1	90-110			
Matrix Spike (2228039-MS1)				Source:	E207002-	)1	Prepared: 0	7/07/22 A	nalyzed: 07/07/22
Chloride	247	20.0	250	ND	98.7	80-120			
Matrix Spike Dup (2228039-MSD1)				Source:	E207002-	)1	Prepared: 0	7/07/22 A	nalyzed: 07/07/22
Chloride	249	20.0	250	ND	99.6	80-120	0.945	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 21-44	
l	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	07/08/22 13:38

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



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-197.2-225/03/04/2017	RDX 21-44	1			Att	ention: Jim Raley		Lab \	VO#			Job I		ber	1D	2D	3D	570301	ndard	CWA	SDW
			ernandez			dress: 5315 Buena Vista Dr.	THE L	Ea	070	SOC	3			7000					y TAT		
	3122 Nat			74, 186	Cit	, State, Zip: Carlsbad, NM, 88	3220	1-0	<u></u>		Α	nalys	is and	d Method		-			HEY S'AL		RCR
ity, Stat	e, Zip: Ca	rlsbad, N	M, 88220		Pho	one:				by											
hone: 2	81-702-2	329			Em	ail:jim.raley@dvn.com				ORO										State	
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Time Sampled	Date Sampled	Matrix	No. of Containers		15 00 00 00 00	Sample ID	Lab Numbe	Depth(ft)	Field Treated	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	BGDOC				Remarks	
10:00	6.29.22	S	1			SW04		0-4'							х				Incident II	D: nAPP21	15533
10:30	6.29.22	S	1			SW05	2	0-4'							х				Cost Cer	ntter:1061	12200
14:00	6.28.22	S	1			FS08	3	4'							х						
15:00	6.29.22	S	1			FS09	4	4'							х					-	
15:30	6.29.22	S	1			FS10	5	4'							х						
16:00	6.29.22	S	1			FS11	6	4'							Х						
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ddition	al Instruc	tions:			-	A= 30			<u> </u>												
(field sam	pler), attest t	o the validit	y and authent	icity of this sample	le. I am awa	re that tampering with or intentionally m	nislabelling the sam	ple locati	on,		-			ring thermal p							led or
			Date	may be grounds fo		Received by: (Signature)	Date Of	(2)	Time	11/	_				L	ab Us	e On		o Consubse	quent days.	
elinquish	ed by: (Sign	ature)	Date	Time	115	Recoved by Signature)	Date /	100	Time	115	2	Rece	eived	on ice:	0	// N					
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e client expense. The report for the analysis of the above

Printed: 7/1/2022 1:17:00PM

#### **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:	07/01/22	10:02		Work Order ID:	E207003
Phone:	(539) 573-4018	Date Logged In:	07/01/22	10:56		Logged In By:	Caitlin Christian
Email:		Due Date:	07/08/22	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	the sample ID match the COC?		Yes				
	the number of samples per sampling site location mate	ch the COC					
	amples dropped off by client or carrier?	on the coc	Yes Yes	G : I	IDC		
	e COC complete, i.e., signatures, dates/times, request	ted analyses?	Yes	Carrier: <u>U</u>	<u>)PS</u>		
	Il samples received within holding time?	icu anaryses.	Yes				
J. Wele a	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio		103			Comment	s/Resolution
Sample 1	<u>[urn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (							
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				
	the sample received on ice? If yes, the recorded temp is 4°C, in 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. 1	<u> </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				
	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-	are collected?	Yes				
Field Lal		ers conected?	105				
	field sample labels filled out with the minimum infor	mation:					
	ample ID?	mation.	Yes				
	Pate/Time Collected?		Yes				
C	follectors name?		No				
Sample I	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 me	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 analyst	zed?	NA				
Subconti	ract Laboratory						
	amples required to get sent to a subcontract laborator	v9	No				
	subcontract laboratory specified by the client and if		NA	Subcontract Lab	v. no		
		so wiio:	1421	Subcontract Lau	), 11a		
Client II	nstruction_						

Report to:

Joseph Hernandez





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 21-44

Work Order: E207036

Job Number: 01058-0007

Received: 7/8/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/13/22

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. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 7/13/22

Joseph Hernandez 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: RDX 21-44 Workorder: E207036

Date Received: 7/8/2022 10:15:00AM

Joseph Hernandez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/8/2022 10:15:00AM, under the Project Name: RDX 21-44.

The analytical test results summarized in this report with the Project Name: RDX 21-44 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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Envirotech Web Address: www.envirotech-inc.com

#### **Table of Contents**

1	Title Page	1
(	Cover Page	2
7	Table of Contents	3
9	Sample Summary	5
9	Sample Data	6
	SW06 0 - 4'	6
	SW07 0 - 4'	7
	SW08 0 - 4'	8
	SW09 0 - 4'	9
	SW10 0 - 4'	10
	SW11 0 - 4'	11
	SW12 0 - 4'	12
	FS12 4'	13
	FS13 4'	14
	FS14 4'	15
	FS15 4'	16
	FS16 4'	17
	FS17 4'	18
	FS18 4'	19
	FS19 4'	20
	FS20 4'	21
(	QC Summary Data	22
	QC - Volatile Organics by EPA 8021B	22
	QC - Nonhalogenated Organics by EPA 8015D - GRO	23
	OC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	24

# Table of Contents (continued)

QC - Anions by EPA 300.0/9056A	25
Definitions and Notes	26
Chain of Custody etc.	27

### Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 21-44	Donoutodi
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	07/13/22 17:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW06 0 - 4'	E207036-01A	Soil	06/30/22	07/08/22	Glass Jar, 2 oz.
SW07 0 - 4'	E207036-02A	Soil	06/30/22	07/08/22	Glass Jar, 2 oz.
SW08 0 - 4'	E207036-03A	Soil	07/06/22	07/08/22	Glass Jar, 2 oz.
SW09 0 - 4'	E207036-04A	Soil	07/06/22	07/08/22	Glass Jar, 2 oz.
SW10 0 - 4'	E207036-05A	Soil	07/06/22	07/08/22	Glass Jar, 2 oz.
SW11 0 - 4'	E207036-06A	Soil	07/06/22	07/08/22	Glass Jar, 2 oz.
SW12 0 - 4'	E207036-07A	Soil	07/06/22	07/08/22	Glass Jar, 2 oz.
FS12 4'	E207036-08A	Soil	07/06/22	07/08/22	Glass Jar, 2 oz.
FS13 4'	E207036-09A	Soil	07/06/22	07/08/22	Glass Jar, 2 oz.
FS14 4'	E207036-10A	Soil	07/06/22	07/08/22	Glass Jar, 2 oz.
FS15 4'	E207036-11A	Soil	07/06/22	07/08/22	Glass Jar, 2 oz.
FS16 4'	E207036-12A	Soil	07/06/22	07/08/22	Glass Jar, 2 oz.
FS17 4'	E207036-13A	Soil	07/06/22	07/08/22	Glass Jar, 2 oz.
FS18 4'	E207036-14A	Soil	07/06/22	07/08/22	Glass Jar, 2 oz.
FS19 4'	E207036-15A	Soil	07/06/22	07/08/22	Glass Jar, 2 oz.
FS20 4'	E207036-16A	Soil	07/06/22	07/08/22	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/13/2022 5:01:33PM

#### SW06 0 - 4' E207036-01

	E20/030-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2229023
ND	0.0250	1	07/11/22	07/12/22	
ND	0.0250	1	07/11/22	07/12/22	
ND	0.0250	1	07/11/22	07/12/22	
ND	0.0250	1	07/11/22	07/12/22	
ND	0.0500	1	07/11/22	07/12/22	
ND	0.0250	1	07/11/22	07/12/22	
	99.0 %	70-130	07/11/22	07/12/22	
mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2229023
ND	20.0	1	07/11/22	07/12/22	
	90.0 %	70-130	07/11/22	07/12/22	
mg/kg	mg/kg	Ana	lyst: JL		Batch: 2229008
ND	25.0	1	07/11/22	07/11/22	
ND	50.0	1	07/11/22	07/11/22	
	107 %	50-200	07/11/22	07/11/22	
mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2229017
192	20.0	1	07/11/22	07/11/22	
	mg/kg 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           mg/kg         mg/kg           Mg/kg         mg/kg           ND         20.0           90.0 %         mg/kg           Mg/kg         mg/kg           ND         25.0           ND         50.0           107 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Ana           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           MD         0.0250         1           MD         0.0250         1           99.0 %         70-130         70-130           mg/kg         mg/kg         Ana           ND         20.0         1           Mg/kg         mg/kg         Ana           ND         25.0         1           ND         50.0         1           107 %         50-200           mg/kg         mg/kg         Ana	Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         07/11/22           ND         0.0250         1         07/11/22           ND         0.0250         1         07/11/22           ND         0.0250         1         07/11/22           ND         0.0500         1         07/11/22           ND         0.0250         1         07/11/22           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         07/11/22           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         07/11/22           ND         50.0         1         07/11/22           ND         50.0         1         07/11/22           MD         50.0         1         07/11/22           mg/kg         Mg/kg         Analyst: JL	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         07/11/22         07/12/22           ND         0.0500         1         07/11/22         07/12/22           ND         0.0250         1         07/11/22         07/12/22           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         07/11/22         07/12/22           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         07/11/22         07/11/22           ND         25.0         1         07/11/22         07/11/22           ND         50.0         1         07/11/22         07/11/22           ND         50.0         1         07/11/22         07/11/22           ND         50.0         1         07/11/22



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/13/2022 5:01:33PM

#### SW07 0 - 4'

		E207036-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2229023
Benzene	ND	0.0250	1	07/11/22	07/12/22	
Ethylbenzene	ND	0.0250	1	07/11/22	07/12/22	
Toluene	ND	0.0250	1	07/11/22	07/12/22	
o-Xylene	ND	0.0250	1	07/11/22	07/12/22	
p,m-Xylene	ND	0.0500	1	07/11/22	07/12/22	
Total Xylenes	ND	0.0250	1	07/11/22	07/12/22	
Surrogate: 4-Bromochlorobenzene-PID		97.0 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2229023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/22	07/12/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2229008
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/22	07/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/22	07/11/22	
Surrogate: n-Nonane		119 %	50-200	07/11/22	07/11/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2229017
Chloride	142	20.0	1	07/11/22	07/11/22	



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/13/2022 5:01:33PM

#### SW08 0 - 4'

		E207036-03				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2229023
Benzene	ND	0.0250	1	07/11/22	07/12/22	
Ethylbenzene	ND	0.0250	1	07/11/22	07/12/22	
Toluene	ND	0.0250	1	07/11/22	07/12/22	
o-Xylene	ND	0.0250	1	07/11/22	07/12/22	
p,m-Xylene	ND	0.0500	1	07/11/22	07/12/22	
Total Xylenes	ND	0.0250	1	07/11/22	07/12/22	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2229023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/22	07/12/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.5 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2229008
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/22	07/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/22	07/11/22	
Surrogate: n-Nonane		104 %	50-200	07/11/22	07/11/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2229017
Chloride	57.6	20.0	1	07/11/22	07/11/22	



Chloride

# **Sample Data**

WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/13/2022 5:01:33PM

#### SW09 0 - 4'

E207036-04						
Analyte	Result	Reporting Limit	Dilutior	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2229023
Benzene	ND	0.0250	1	07/11/22	07/12/22	
Ethylbenzene	ND	0.0250	1	07/11/22	07/12/22	
Toluene	ND	0.0250	1	07/11/22	07/12/22	
o-Xylene	ND	0.0250	1	07/11/22	07/12/22	
p,m-Xylene	ND	0.0500	1	07/11/22	07/12/22	
Total Xylenes	ND	0.0250	1	07/11/22	07/12/22	
Surrogate: 4-Bromochlorobenzene-PID		99.0 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: RKS		Batch: 2229023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/22	07/12/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.5 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2229008
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/22	07/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/22	07/11/22	
Surrogate: n-Nonane		102 %	50-200	07/11/22	07/11/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2229017

20.0

289

07/11/22

07/11/22



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/13/2022 5:01:33PM

#### SW10 0 - 4'

		E207036-05				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: RKS		Batch: 2229023
Benzene	ND	0.0250	1	07/11/22	07/12/22	
Ethylbenzene	ND	0.0250	1	07/11/22	07/12/22	
Toluene	ND	0.0250	1	07/11/22	07/12/22	
o-Xylene	ND	0.0250	1	07/11/22	07/12/22	
p,m-Xylene	ND	0.0500	1	07/11/22	07/12/22	
Total Xylenes	ND	0.0250	1	07/11/22	07/12/22	
Surrogate: 4-Bromochlorobenzene-PID		99.4 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: RKS		Batch: 2229023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/22	07/12/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: JL		Batch: 2229008
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/22	07/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/22	07/11/22	
Surrogate: n-Nonane		99.7 %	50-200	07/11/22	07/11/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: RAS		Batch: 2229017
Chloride	197	20.0	1	07/11/22	07/11/22	



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/13/2022 5:01:33PM

#### SW11 0 - 4'

		E207036-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2229023
Benzene	ND	0.0250	1	07/11/22	07/12/22	
Ethylbenzene	ND	0.0250	1	07/11/22	07/12/22	
Toluene	ND	0.0250	1	07/11/22	07/12/22	
o-Xylene	ND	0.0250	1	07/11/22	07/12/22	
p,m-Xylene	ND	0.0500	1	07/11/22	07/12/22	
Total Xylenes	ND	0.0250	1	07/11/22	07/12/22	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2229023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/22	07/12/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2229008
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/22	07/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/22	07/11/22	
Surrogate: n-Nonane		109 %	50-200	07/11/22	07/11/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2229017
Chloride	96.9	20.0	1	07/11/22	07/11/22	



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/13/2022 5:01:33PM

#### SW12 0 - 4'

		E207036-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2229023
Benzene	ND	0.0250	1	07/11/22	07/12/22	
Ethylbenzene	ND	0.0250	1	07/11/22	07/12/22	
Toluene	ND	0.0250	1	07/11/22	07/12/22	
o-Xylene	ND	0.0250	1	07/11/22	07/12/22	
p,m-Xylene	ND	0.0500	1	07/11/22	07/12/22	
Total Xylenes	ND	0.0250	1	07/11/22	07/12/22	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2229023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/22	07/12/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2229008
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/22	07/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/22	07/11/22	
Surrogate: n-Nonane		107 %	50-200	07/11/22	07/11/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2229017
Chloride	36.6	20.0	1	07/11/22	07/11/22	·



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/13/2022 5:01:33PM

### FS12 4'

### E207036-08

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2229023
Benzene	ND	0.0250	1	07/11/22	07/12/22	
Ethylbenzene	ND	0.0250	1	07/11/22	07/12/22	
Toluene	ND	0.0250	1	07/11/22	07/12/22	
o-Xylene	ND	0.0250	1	07/11/22	07/12/22	
p,m-Xylene	ND	0.0500	1	07/11/22	07/12/22	
Total Xylenes	ND	0.0250	1	07/11/22	07/12/22	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2229023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/22	07/12/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2229008
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/22	07/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/22	07/11/22	
Surrogate: n-Nonane		108 %	50-200	07/11/22	07/11/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2229017
Chloride	237	20.0	- 1	07/11/22	07/11/22	·



Chloride

### Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/13/2022 5:01:33PM

### FS13 4'

		E207036-09					
		Reporting					
Analyte	Result	Limit	Dilut	tion Prepa	red .	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	Analyst: RKS			Batch: 2229023
Benzene	ND	0.0250	1	07/11	/22	07/12/22	
Ethylbenzene	ND	0.0250	1	07/11	/22	07/12/22	
Toluene	ND	0.0250	1	07/11	/22	07/12/22	
o-Xylene	ND	0.0250	1	07/11	/22	07/12/22	
p,m-Xylene	ND	0.0500	1	07/11	/22	07/12/22	
Total Xylenes	ND	0.0250	1	07/11	/22	07/12/22	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	70-130	07/11	/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS			Batch: 2229023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11	/22	07/12/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	07/11	/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	P	Analyst: JL			Batch: 2229008
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11	/22	07/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11	/22	07/11/22	
Surrogate: n-Nonane		108 %	50-200	07/11	/22	07/11/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	P	Analyst: RAS			Batch: 2229017

20.0

2510

07/11/22

07/11/22



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/13/2022 5:01:33PM

### FS14 4'

		E207036-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2229023
Benzene	ND	0.0250	1	07/11/22	07/12/22	
Ethylbenzene	ND	0.0250	1	07/11/22	07/12/22	
Toluene	ND	0.0250	1	07/11/22	07/12/22	
o-Xylene	ND	0.0250	1	07/11/22	07/12/22	
p,m-Xylene	ND	0.0500	1	07/11/22	07/12/22	
Total Xylenes	ND	0.0250	1	07/11/22	07/12/22	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2229023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/22	07/12/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.9 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2229008
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/22	07/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/22	07/11/22	
Surrogate: n-Nonane		108 %	50-200	07/11/22	07/11/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2229017
Chloride	2580	20.0	1	07/11/22	07/11/22	



### **Sample Data**

WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/13/2022 5:01:33PM

### FS15 4'

		E207036-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2229023
Benzene	ND	0.0250	1	07/11/22	07/12/22	
Ethylbenzene	ND	0.0250	1	07/11/22	07/12/22	
Гoluene	ND	0.0250	1	07/11/22	07/12/22	
o-Xylene	ND	0.0250	1	07/11/22	07/12/22	
o,m-Xylene	ND	0.0500	1	07/11/22	07/12/22	
Total Xylenes	ND	0.0250	1	07/11/22	07/12/22	
Surrogate: 4-Bromochlorobenzene-PID		110 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2229023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/22	07/12/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2229008
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/22	07/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/22	07/11/22	
Surrogate: n-Nonane		119 %	50-200	07/11/22	07/11/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2229017
Chloride	232	20.0	1	07/11/22	07/11/22	



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/13/2022 5:01:33PM

### FS16 4'

#### E207036-12

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2229023
Benzene	ND	0.0250	1	07/11/22	07/12/22	
Ethylbenzene	ND	0.0250	1	07/11/22	07/12/22	
Toluene	ND	0.0250	1	07/11/22	07/12/22	
o-Xylene	ND	0.0250	1	07/11/22	07/12/22	
p,m-Xylene	ND	0.0500	1	07/11/22	07/12/22	
Total Xylenes	ND	0.0250	1	07/11/22	07/12/22	
Surrogate: 4-Bromochlorobenzene-PID		111 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2229023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/22	07/12/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: JL		Batch: 2229008
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/22	07/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/22	07/11/22	
Surrogate: n-Nonane		114 %	50-200	07/11/22	07/11/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: RAS		Batch: 2229017
Chloride	1770	20.0	1	07/11/22	07/11/22	•



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/13/2022 5:01:33PM

### FS17 4'

		E207036-13				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2229023
Benzene	ND	0.0250	1	07/11/22	07/12/22	
Ethylbenzene	ND	0.0250	1	07/11/22	07/12/22	
Toluene	ND	0.0250	1	07/11/22	07/12/22	
o-Xylene	ND	0.0250	1	07/11/22	07/12/22	
p,m-Xylene	ND	0.0500	1	07/11/22	07/12/22	
Total Xylenes	ND	0.0250	1	07/11/22	07/12/22	
Surrogate: 4-Bromochlorobenzene-PID		111 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2229023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/22	07/12/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2229008
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/22	07/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/22	07/11/22	
Surrogate: n-Nonane		100 %	50-200	07/11/22	07/11/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2229017
Chloride	594	20.0	1	07/11/22	07/11/22	



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/13/2022 5:01:33PM

### FS18 4'

#### E207036-14

		ъ .:				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Allaryte	Result	Lillit	Dilution	Frepared	Allalyzeu	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2229023
Benzene	ND	0.0250	1	07/11/22	07/12/22	
Ethylbenzene	ND	0.0250	1	07/11/22	07/12/22	
Toluene	ND	0.0250	1	07/11/22	07/12/22	
o-Xylene	ND	0.0250	1	07/11/22	07/12/22	
p,m-Xylene	ND	0.0500	1	07/11/22	07/12/22	
Total Xylenes	ND	0.0250	1	07/11/22	07/12/22	
Surrogate: 4-Bromochlorobenzene-PID		111 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2229023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/22	07/12/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	/st: JL		Batch: 2229008
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/22	07/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/22	07/12/22	
Surrogate: n-Nonane		95.7 %	50-200	07/11/22	07/12/22	
	ma/ka	mg/kg	Analy	/st: RAS		Batch: 2229017
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1 11141,			Battern: 222, 017



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/13/2022 5:01:33PM

### FS19 4'

### E207036-15

		D				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2229023
Benzene	ND	0.0250	1	07/11/22	07/12/22	
Ethylbenzene	ND	0.0250	1	07/11/22	07/12/22	
Toluene	ND	0.0250	1	07/11/22	07/12/22	
o-Xylene	ND	0.0250	1	07/11/22	07/12/22	
p,m-Xylene	ND	0.0500	1	07/11/22	07/12/22	
Total Xylenes	ND	0.0250	1	07/11/22	07/12/22	
Surrogate: 4-Bromochlorobenzene-PID		112 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2229023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/22	07/12/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2229008
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/22	07/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/22	07/12/22	
Surrogate: n-Nonane		109 %	50-200	07/11/22	07/12/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2229017
Chloride	216	20.0	1	07/11/22	07/11/22	•



WPX Energy - Carlsbad	Project Name:	RDX 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/13/2022 5:01:33PM

### FS20 4'

		E207036-16				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2229023
Benzene	ND	0.0250	1	07/11/22	07/12/22	
Ethylbenzene	ND	0.0250	1	07/11/22	07/12/22	
Toluene	ND	0.0250	1	07/11/22	07/12/22	
o-Xylene	ND	0.0250	1	07/11/22	07/12/22	
p,m-Xylene	ND	0.0500	1	07/11/22	07/12/22	
Total Xylenes	ND	0.0250	1	07/11/22	07/12/22	
Surrogate: 4-Bromochlorobenzene-PID		115 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2229023
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/22	07/12/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	07/11/22	07/12/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2229008
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/22	07/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/22	07/12/22	
Surrogate: n-Nonane		109 %	50-200	07/11/22	07/12/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2229017
Chloride	1260	20.0	1	07/11/22	07/11/22	



RDX 21-44 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Joseph Hernandez 7/13/2022 5:01:33PM **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 (2229023-BLK1) Prepared: 07/11/22 Analyzed: 07/12/22 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 7.67 8.00 95.8 70-130 LCS (2229023-BS1) Prepared: 07/11/22 Analyzed: 07/12/22 5.01 100 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.44 0.0250 5.00 88.8 70-130 4.76 0.0250 5.00 95.3 70-130 Toluene o-Xylene 4.68 0.0250 5.00 93.7 70-130 9.13 10.0 91.3 70-130 0.0500 p.m-Xvlene 92.1 13.8 15.0 70-130 Total Xylenes 0.0250 8.00 98.1 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.85 Matrix Spike (2229023-MS1) Source: E207036-02 Prepared: 07/11/22 Analyzed: 07/12/22 5.04 0.0250 5.00 ND 54-133 Benzene ND 90.1 61-133 Ethylbenzene 4.50 0.0250 5.00 Toluene 4.81 0.0250 5.00 ND 96.2 61-130 4.75 ND 95.0 63-131 5.00 0.0250 o-Xylene p,m-Xylene 9.28 0.0500 10.0 ND 92.8 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.99 8.00 Matrix Spike Dup (2229023-MSD1) Source: E207036-02 Prepared: 07/11/22 Analyzed: 07/12/22 5.03 0.0250 5.00 ND 54-133 0.188 20 61-133 0.270 4.49 0.0250 5.00 ND 89.8 20 Ethylbenzene Toluene 4 80 0.0250 5.00 ND 96.0 61-130 0.205 20 4.73 5.00 ND 94.6 63-131 0.442 20 o-Xylene 0.0250 0.377 9.25 10.0 ND 92.5 63-131 20 p,m-Xylene 0.0500



14.0

7.98

0.0250

15.0

8.00

ND

93.2

99.7

63-131

70-130

0.399

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

WPX Energy - Carlsbad	Project Name:	RDX 21-44	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/13/2022 5:01:33PM

Carlsbad NM, 88220		Project Manage	r: Jos	seph Hernand	lez			7/13	3/2022 5:01:33PM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO		A	nalyst: 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 (2229023-BLK1)							Prepared: 07	7/11/22 Analy	zed: 07/12/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			
LCS (2229023-BS2)							Prepared: 07	7/11/22 Analy	zed: 07/12/22
Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			
Matrix Spike (2229023-MS2)				Source:	E207036-	02	Prepared: 07	7/11/22 Analy	zed: 07/12/22
Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.1	70-130			
Matrix Spike Dup (2229023-MSD2)				Source:	E207036-	02	Prepared: 07	7/11/22 Analy	zed: 07/12/22
Gasoline Range Organics (C6-C10)	46.1	20.0	50.0	ND	92.1	70-130	0.0998	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



WPX Energy - Carlsbad	Project Name:	RDX 21-44	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	7/13/2022 5:01:33PM

Carlsbad NM, 88220		Project Manager	r: Jos	seph Hernand	lez			/.	/13/2022 5:01:33PN
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2229008-BLK1)							Prepared: 0	7/11/22 Ana	alyzed: 07/11/22
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	60.9		50.0		122	50-200			
LCS (2229008-BS1)							Prepared: 0	7/11/22 Ana	alyzed: 07/11/22
Diesel Range Organics (C10-C28)	518	25.0	500		104	38-132			
urrogate: n-Nonane	52.2		50.0		104	50-200			
Matrix Spike (2229008-MS1)				Source:	E207036-0	09	Prepared: 0	7/11/22 Ana	alyzed: 07/11/22
Diesel Range Organics (C10-C28)	568	25.0	500	ND	114	38-132			
urrogate: n-Nonane	53.4		50.0		107	50-200			
Matrix Spike Dup (2229008-MSD1)				Source:	E207036-0	09	Prepared: 0	7/11/22 Ana	alyzed: 07/11/22
Diesel Range Organics (C10-C28)	533	25.0	500	ND	107	38-132	6.19	20	
urrogate: n-Nonane	53.1		50.0		106	50-200			

WPX Energy - Carlsbad		Project Name:		DX 21-44					Reported:
5315 Buena Vista Dr		Project Number:	01	1058-0007					
Carlsbad NM, 88220		Project Manager	: Jo	seph Hernand	lez				7/13/2022 5:01:33PM
		Anions	by EPA 3	300.0/9056 <i>£</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 (2229017-BLK1)							Prepared: 0	7/11/22 A	nalyzed: 07/11/22
Chloride	ND	20.0							
LCS (2229017-BS1)							Prepared: 0	7/11/22 A	nalyzed: 07/11/22
Chloride	250	20.0	250		99.8	90-110			
Matrix Spike (2229017-MS1)				Source:	E207036-	01	Prepared: 0	7/11/22 A	nalyzed: 07/11/22
Chloride	507	20.0	250	192	126	80-120			M2
Matrix Spike Dup (2229017-MSD1)				Source:	E207036-	01	Prepared: 0	7/11/22 A	nalyzed: 07/11/22
Chloride	489	20.0	250	192	119	80-120	3.54	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 21-44	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	07/13/22 17:01

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

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Project	Information

hain	of	Custody	

Page	of Z
rage	01

Client: V	/PX				188	Bill To		ris di ca		La	b Us	e Only	У					TA	T		EPA P	rogram
	RDX 21-44					tention: Jim Raley		Lab \				Job N								SDWA		
					dress: 5315 Buena Vista Dr.	315 Buena Vista Dr. E20703LD				D.								5 Day	y TAT			
	: 3122 Nat					y, State, Zip: Carlsbad, NM, 88	3220				1	analys	is an	d Met	hod							RCRA
			IM, 88220		Ph	one:	§ .			by by												
	81-702-2				En	nail:jim.raley@dvn.com			1	ORC											State	
	ernandez	@ensolu	ım.com						Pa	ORO/	21	00	0	0.00		ΣN			N	M CO	UT AZ	TX
Report o	lue by:				10.00			Œ	reat	30/0	y 80	/ 826	601	le 30		10 - 3	¥					
Time Sampled	Date Sampled	Matrix	No. of Containers	and the second		Sample ID	Lab Number	Depth(ft)	Field Treated	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	BGDOC				Remarks	
14:00	6.30.22	S	1			SW06		0-4'								Х			1	ncident II	D: nAPP21	15533694
14:30	6.30.22	S	1			SW07	2	0-4'								Х				Cost Cer	ntter:1061	122001
10:15	7.6.22	S	1			SW08	3	0-4'								Х						
10:00	7.6.22	S	1			SW09	4	0-4'								Х						
10:30	7.6.22	S	1			SW10	5	0-4'								Х						
10:45	7.6.22	S	1			SW11	6	0-4'								Х						
11:00	7.6.22	S	1			SW12	7	0-4'	Г							Х				1		
11:10	7.6.22	S	1			FS12	8	4'								Х						
11:20	7.6.22	S	1	FS13		9	4'	T							Х							
11:30	7.6.22	S	1			FS14	10	4'								Х				7		
Addition	al Instruc	tions:							-						!							
					sample. I am aw	are that tampering with or intentionally non. \ Sampled by: Gilbert M		nple locat	tion,			The state of the s		CONTRACTOR VANCO						ce the day th	hey are samp quent days.	led or
Relinquish	ed by: (Sign	ature)	Date 7	7.22	Time 4:15	Releived by: (Signatura)	Date 7	-2	Time	2:4	5	Rece	ived	on ic	e:	Li	ab Us	se Onl	у			
Reinguish	ed by: (Sign	Mo	M Date .	722	Time - 15	Received by: (Signature)	Date 7/8/	127	Time	2:/9	5	T1				T2			Т3	3		
Relinquish	ed by: (Sign	ature)	Date		Time	Received by: (Signature)	Date		Time			AVG	Tem	np °C_	4	5						
Sample Ma	trix: <b>S</b> - Soil, <b>S</b>	d - Solid, Sg	- Sludge, A - Ad	queous, O -	Other	i i i i i i i i i i i i i i i i i i i	Containe	er Type	g-g	lass, p							s, v -	VOA				
Note: Sam	ples are dis	carded 30	days after res	ults are re	ported unless	other arrangements are made. Haza													report f	or the an	alysis of th	ne above
samples is	applicable of	only to tho	se samples re	eceived by	the laboratory	with this COC. The liability of the lab	oratory is limited	to the a	amour	nt paid	for o	n the r	enor	t.								



eclient expense. The report for the analysis of the above

Page 123 of 131

Project Information
Client: WPX
Project Manager: Jo
Project Manager: Jo

Chain of Custody

Page Z of Z

Client: WPX			Bill To			Lab Use								TA	710	EPA Prog			
Project: R	DX 21-44	1			Attention: Jim Raley		Lab V	VO#					umber 1D 2D 3D Standard 0			CWA	SDWA		
Project M	lanager:	Joseph H	ernandez		Address: 5315 Buena Vista Dr.		Eal	570	36	)	dos	ZZ-	1000				5 Day TAT		
Address:	3122 Nat	tional Pa	rks HWY		City, State, Zip: Carlsbad, NM, 8	88220							d Method						RCRA
City, State	e, Zip: Ca	rlsbad, N	IM, 88220		Phone:				by										
Phone: 28	31-702-23	329			Email:jim.raley@dvn.com		]		ORO									State	
Email: jhe	ernandez	@ensolu	m.com				]	g.	RO/	11	0	0	0.0	ΣN			NM C	UT AZ	. TX
Report du	ie pa:						Œ	eate	g/o	/ 80	826	601(	e 30		×				
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID	Lab Number	Depth(ft)	Field Treated	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	верос	BGDOC			Remark	S
11:40	7.6.22	S	1		FS15	I	4'							х			Incide	t ID: nAPP2	115533694
11:50	7.6.22	S	1		FS16	12	4'							х			Cost	Centter:106	1122001
12:00	7.6.22	S	1		FS17	13	4'							х					
12:10	7.6.22	S	1		FS18	14	4'							х					
12:20	7.6.22	S	1		FS19	15	4'							х				4.	
12:30	7.6.22	S	1		FS20	100	4'							х			I,	7	
					0 2.72			_	_			_							
				(	more the														
Additiona	l Instruc	tions:			78.3					ī									
				city of this sample	. I am aware that tampering with or intentionally regal action. Sampled by: Gilbert		ple loca	tion,									eceived on ice the o		
Relipquishe	by: (Signa	ature)	Date	Time	Rederved by: (Signature)	Date	-2)			4	Rece	ive	d on ice:		ab U	se Or	nly		
Refinauished	Mel	XIM	Date	7-24 Time	Received by (Signature)	the 7/8/2	22	Time 10	15	_	T1_			<u>T2</u>			<u>T3</u>	14. 14.	
Relinquished	d by: (Signa	atdre)	Date	Time	Received by: (Signature)	Date		Time			AVG	Ter	np °C	4					
accessor and accessor and	C C	- Solid Sa	- Sludge A - Ar	queous, O - Other		Contains	r Type	· a - a	lace n	- no	alu/nla	ctic	ag amb	ar ala	cc V	VOA			



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

envirotech

age 124 of 131

envirotech Inc.

Printed: 7/8/2022 2:01:23PM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	07/08/22 1	10:15		Work Order ID:	E207036
Phone:	(539) 573-4018	Date Logged In:	07/08/22 0	08:34		Logged In By:	Caitlin Christian
Email:	jhernandez@ensolum.com	Due Date:	07/13/22 1	17:00 (3 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: <u>U</u>	<u>PS</u>		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	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 disucssis.					Comments	s/Resolution
Sample T	urn Around Time (TAT)	on.		Г			
	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>C</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>						
	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	ate/Time Collected? ollectors name?		Yes	_			
	reservation		No				
	the COC or field labels indicate the samples were property.	reserved?	No				
	imple(s) correctly preserved?	ecsor vou.	NA				
	filteration required and/or requested for dissolved n	netals?	No				
	se Sample Matrix		110				
	se Sample watrix the sample have more than one phase, i.e., multipha	se?	Nia				
	does the COC specify which phase(s) is to be analy		No				
		yzeu:	NA				
	act Laboratory		3.7				
	amples required to get sent to a subcontract laborato	-	No				
29. was a	subcontract laboratory specified by the client and is	r so wno?	NA	Subcontract Lab:	: na		
Client In	<u>istruction</u>						

Date

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



# **APPENDIX F**

# **Email Correspondence**

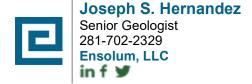
#### **Erick Herrera**

From: Joseph Hernandez

**Sent:** Monday, January 30, 2023 11:21 AM

To: Erick Herrera

**Subject:** FW: WPX Site Activity Update for Week of June 6, 2022



From: Joseph Hernandez

Sent: Thursday, June 2, 2022 3:55 PM

To: ocd.enviro@state.nm.us

Cc: Raley, Jim < Jim.Raley@dvn.com>; Anna Byers <abyers@ensolum.com>; Ben Belill <bbelill@ensolum.com>

Subject: WPX Site Activity Update for Week of June 6, 2022

Good afternoon,

WPX anticipates conducting final confirmation soil sampling activities at the following site between June 6 through June 10, 2022:

Site: RDX Federal 21 #044

API: 30-015-41193

Incident Number: nAPP2115533694

Thank you,



#### **Erick Herrera**

From: Joseph Hernandez

**Sent:** Monday, January 30, 2023 11:20 AM

To: Erick Herrera

**Subject:** FW: WPX Site Activity Update for Week of June 20, 2022



From: Joseph Hernandez

Sent: Friday, June 17, 2022 1:29 PM

To: ocd.enviro@state.nm.us; BLM\_NM\_CFO\_Spill@blm.gov

Cc: Raley, Jim <Jim.Raley@dvn.com>; Devon-Team <Devon-Team@ensolum.com>

Subject: WPX Site Activity Update for Week of June 20, 2022

Good afternoon,

WPX anticipates conducting final confirmation soil sampling activities at the following sites between June 20 through June 24, 2022:

Site: RDX Federal 21 #044

API: 30-015-41193

Incident Number: nAPP2115533694

Site: RDX Federal 28 #011

API: 30-015-42109

Incident Number: nAPP2215732821

Site: EP USA #005 API: 30-015-25020

Incident Number: NMAP1826970471



From: <u>Joseph Hernandez</u>

To: <a href="mailto:ocd.enviro@state.nm.us">ocd.enviro@state.nm.us</a>; "CFO Spill, BLM NM"

Cc: Raley, Jim; Devon Team

**Subject:** WPX Site Sampling Activity Update (6/25/22-7/2/22)

**Date:** Friday, June 24, 2022 9:52:00 AM

Attachments: <u>image001.png</u>

image002.png image003.png image004.png

#### Good morning,

WPX anticipates conducting final confirmation soil sampling activities at the following sites between June 25 through July 2, 2022:

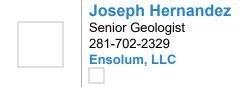
Site: RDX Federal 21 #044

API: 30-015-41193

Incident Number: nAPP2115533694

Site: EP USA #005 API: 30-015-25020

Incident Number: NMAP1826970471



#### **Erick Herrera**

From: Joseph Hernandez

**Sent:** Friday, July 1, 2022 3:02 PM

**To:** ocd.enviro@state.nm.us; 'CFO\_Spill, BLM\_NM'

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

**Subject:** WPX Site Sampling Activity Update (7/5-7/9/22)

#### Good afternoon,

WPX anticipates conducting final confirmation soil sampling activities at the following sites between July 5 through July 9, 2022:

Site: RDX Federal 21 #044

API: 30-015-41193

Incident Number: nAPP2115533694

Site: RDX Federal 28 #011

API: 30-015-42109

Incident Number: nAPP2215732821

Site: Ross Draw Unit #060

API: 30-015-41979

Incident Number: nAPP2216732906



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

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

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

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

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

CONDITIONS

Action 188330

#### **CONDITIONS**

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	188330
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created	By Condition	Condition Date
rhamle	We have received your closure report and final C-141 for Incident #NAPP2115533694 RDX FEDERAL 21 #044, thank you. This closure is approved.	6/21/2023