

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  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

**NM OIL CONSERVATION**  
ARTESIA DISTRICT Form C-141  
Revised August 8, 2011  
DEC 19 2016  
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.  
**RECEIVED**

**Release Notification and Corrective Action**

*NAB 1435457231* OPERATOR  Initial Report  Final Report

Name of Company	WPX Energy Inc/RKI <i>246289</i>	Contact	Karolina Blaney
Address	5315 Buena Vista Dr.	Telephone No.	970 589 0743
Facility Name:	RDX 21-32	Facility Type:	Well Pad

Surface Owner:	Federal	Mineral Owner:	Federal	API No.	30-015-40642
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	21	26S	30E	1880	FSL	1650	FWL	Eddy

Latitude: 32.025644178 N Longitude: -103.889111316 W

**NATURE OF RELEASE**

Type of Release.	Produced Water	Volume of Release:	12 Bbls	Volume Recovered:	5 Bbls
Source of Release	Stuffing Box	Date and Hour of Occurrence	12/9/2016	Date and Hour of Discovery	12/9/2016 - 9:30 hrs MT
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	NMOCD Heather Patterson & Michael Bratcher, BLM Shelly Tucker		
By Whom?	Karolina Blaney	Date and Hour:	12/9/2016 - 15:40 hrs MT		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	N/A		

If a Watercourse was Impacted, Describe Fully.\* N/A

**Describe Cause of Problem and Remedial Action Taken.\***

The cause of this spill is mechanical failure of the stuffing box. Approximately 12 bbls of produced water was spill. The spill migrated southwest towards the access road and impacted a small area to the west of the road. The impacted area was mapped with Trimble. The treater and separator caught on fire which resulted in a produced water and oil spill (less than 1 bbl of oil).

**Describe Area Affected and Cleanup Action Taken.\***

On 12/16/16, two grab surface samples were collected from the impacted area; one from the well pad and one from the pasture. The samples are being analyzed for TPH, BTEX and chlorides in accordance with NM OCD Guidelines for Remediation of Leaks, Spills, and Releases. Further remediation will be based on these results.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:	<i>Karolina Blaney</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name:	Karolina Blaney	Approved by Environmental Specialist:	<i>[Signature]</i>
Title:	Environmental Specialist	Approval Date:	<i>12/23/16</i> Expiration Date: <i>N/A</i>
E-mail Address:	Karolina.blaney@wpxenergy.com	Conditions of Approval:	<i>see attached</i>
Date:	12/16/2016	Phone:	970-589-0743
		Attached	<input checked="" type="checkbox"/>

\* Attach Additional Sheets If Necessary

*2RP-4041*

Incident ID	
District RP	2RP-4041
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?	>50 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-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.

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	
District RP	2RP-4041
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: Lynda Laumbach Title: Environmental Specialist  
 Signature:  Date: 09/30/2020  
 email: Lynda.Laumbach@wpenergy.com Telephone: (575)725-1647

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	2RP-4041
Facility ID	
Application ID	

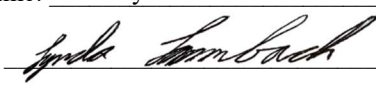
## Closure

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 of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Lynda Laumbach Title: Environmental Specialist  
 Signature:  Date: 09/30/2020  
 email: Lynda.Laumbach@wpenergy.com Telephone: (575)725-1647

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 3/29/2023  
 Printed Name: Ashley Maxwell Title: Environmental Specialist

Closure approved. However, release is subject to 19.15.29.13 NMAC Restoration, Reclamation, and Revegetation. The reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. Chloride levels will need to be addressed during P&A activities. Submit a report verifying that 19.15.29.13 NMAC stipulations have been met for the site to be released upon completion of P&A activities.



September 30, 2020  
Mike Bratcher  
NMOCD District 2  
811 South First Street  
Artesia, NM 88210

Re: RDX Federal 21 #032H Release Closure Request (2RP-4041)

Mr. Bratcher,

This report summarizes the excavation, and sampling activities at the RDX Federal 21 #032H well pad (Site). The site map is provided as Figure 01. On December 09, 2016, the stuffing box failed causing 12 barrels (bbls) of produced water (PW) to be on the pad and into the pasture. 5 bbls of PW was recovered with a vacuum truck.

*Well Location:* RDX Federal 21 #032H

*API #:* 30-015-40642

*NMOCD Reference #:* 2RP-4041

*Site Location Description:* Unit Letter K, Section 21, Township 26S, Range 30E

*Release Latitude/Longitude:* N32.025686, W103.889681

*Land Jurisdiction:* Federal

*Agency Notification:* New Mexico Oil Conservation Division (NMOCD), Artesia District Office

*Agency Notification Date(s):* December 09, 2016 @ 1540 hrs MST

*Source of Release:* Stuffing box failure

*Release Contents:* PW

*Volume Released:* 12 bbls PW

*Volume Recovered:* 5 bbls PW

*Estimated Depth to Groundwater:* >50 feet

### **Closure Criteria Determination**

The Closure criteria of this site was determined based on the New Mexico Administrative Code (NMAC) Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12). Depth to groundwater at the site is estimated to be greater than 50 feet below ground surface (bgs). Based on the criteria outlined above, the closure criteria from the NMOCD Table 1 are as follows:

- 10,000 milligrams per kilogram (mg/kg) Chloride
- 50 mg/kg Benzene, Toluene, Ethylbenzene, and xylenes (BTEX)
- 10 mg/kg Benzene
- 2,500 mg/kg Total Petroleum Hydrocarbons (TPH)
- 1,000 mg/kg Diesel range organics (DRO) + Gasoline range organics (GRO)

### **Field Activities**

On September 25, 2020, WPX personnel were onsite to complete delineation sampling of the Site. Discrete delineation samples DS01 through DS05 were collected to delineate the release. The photolog of field activities is documented in Attachment 01. The samples were taken with

decontaminated equipment, jarred in precleaned glass soil jars, with appropriate identification, and immediately placed on ice to lower sample temperatures below 4° Celsius, adhering to the chain of custody of Envirotech laboratories. Analysis was completed at Envirotech Laboratories in Albuquerque, NM. All samples were analyzed for Chlorides via Method EPA 300.0, TPH via Method 8015M, and BTEX via Method 8021B.

### Laboratory Analytical Results

The laboratory analytical results for the excavation of impacted soils confirmed that all samples were compliant with the closure criteria for this Site. All samples are below the allowable standards for Chloride, BTEX, and TPH. The sample locations are depicted in Figure 02. All sample results are summarized in Table 01 and complete lab results are provided in Attachment 02.

- Chloride samples ranged from below the Laboratory detectable limit to 1,870 mg/kg
- BTEX analysis was below the Laboratory detectable limit
- Benzene analysis was below the Laboratory detectable limit
- TPH analysis was below the Laboratory detectable limit

### Conclusions

The laboratory analytical results to address the impacted soils from 2RP-4041 demonstrates compliance with the Table 1 Closure Criteria set forth by the NMOCD. Actions to mitigate initial impacts of this site have proven a successful remediation. WPX requests no further action for this incident. The updated C-141 is included at the front of this report. If any questions or further information is warranted, please do not hesitate to contact me by cell phone at (575) 725-1647 or by email at [Lynda.Laumbach@wpxenergy.com](mailto:Lynda.Laumbach@wpxenergy.com).

Best regards,



Lynda Laumbach  
Environmental Specialist

CC: Robert Hamlet, NMOCD  
Victoria Venegas, NMOCD

#### Attachments:

Figure 01 Site Map  
Figure 02 Field Activities  
Table 01 Sample Results  
Attachment 01 Photograph Log  
Attachment 02 Laboratory Analytical Results

# Figures

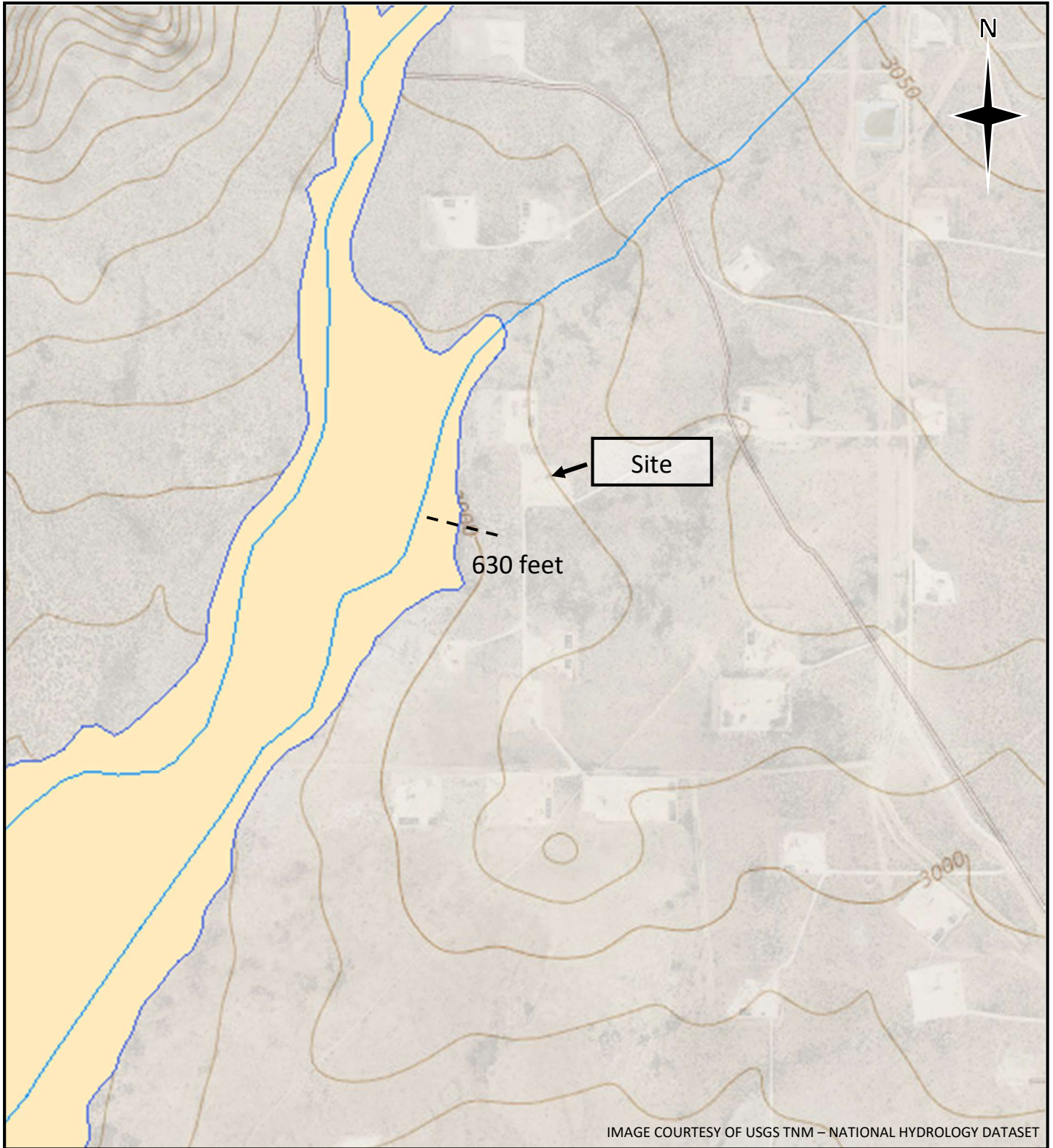

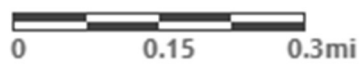


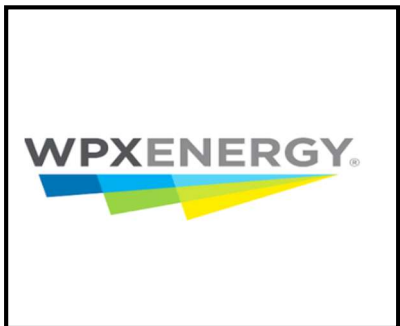
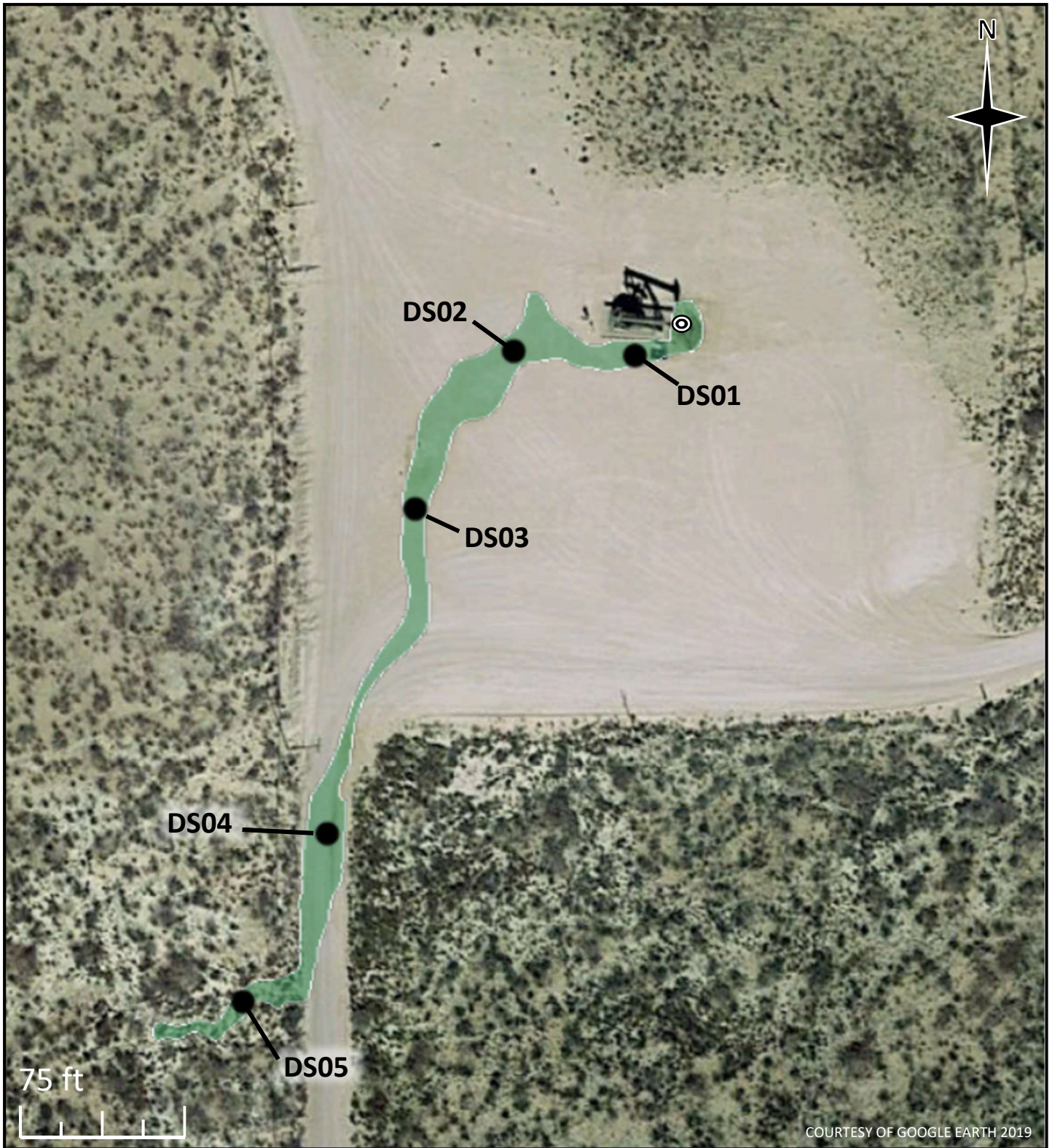


IMAGE COURTESY OF USGS TNM – NATIONAL HYDROLOGY DATASET

 	<p>Legend</p> <ul style="list-style-type: none"><li> Flood Plain</li><li> OSE marked Stream</li></ul>	<p>Figure 01 RDX Federal 21 #032H 30-015-40642 Permian Basin, Eddy County, NM 32.025686, -103.889681 2RP-4041</p>
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Legend
⊙ Point of Release
■ Notable Extent (January 31, 2020)

Figure 02  
RDX Federal 21 #032H  
30-015-40642  
Permian Basin, Eddy County, NM  
32.025686, -103.889681  
2RP-4041

**TABLE 01  
SOIL SAMPLE ANALYTICAL RESULTS**



**RDX Federal 21 #032H  
NMOCD REFERENCE NUMBER: 2RP-4041**

Sample Name	Depth (ft bgs)	Sample Date	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	GRO + DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
DS01	1	9/25/2020	<0.00198	<0.00198	<50.0	<50.0	<50.0	-	-	1870.0
DS01A	2	9/25/2020	<0.00198	<0.00198	<50.0	<50.0	<50.0	-	-	160.0
DS01B	3	9/25/2020	<0.002	<0.002	<50.0	<50.0	<50.0	-	-	<10.0
DS02	1	9/25/2020	<0.00199	<0.00199	<50.2	<50.2	<50.2	-	-	3790.0
DS02A	2	9/25/2020	<0.002	<0.002	<50.2	<50.2	<50.2	-	-	453.0
DS02B	3	9/25/2020	<0.00199	<0.00199	<49.9	<49.9	<49.9	-	-	19.9
DS03	1	9/25/2020	<0.00202	<0.00202	<49.8	<49.8	<49.8	-	-	490.0
DS03A	2	9/25/2020	<0.002	<0.002	<49.8	<49.8	<49.8	-	-	26.2
DS03B	3.5	9/25/2020	<0.002	<0.002	<50.2	<50.2	<50.2	-	-	247.0
DS04	1	9/25/2020	<0.00202	<0.00202	<50.2	<50.2	<50.2	-	-	503.0
DS04A	2	9/25/2020	<0.00202	<0.00202	<50.0	<50.0	<50.0	-	-	738.0
DS05	1	9/25/2020	<0.00199	<0.00199	<50.0	<50.0	<50.0	-	-	10.5
DS05A	2	9/25/2020	<0.00199	<0.00199	<49.9	<49.9	<49.9	-	-	<10.0
<b>NMOCD Table 1 Closure Criteria</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
Reference: BTEX: benzene, toluene, ethylbenzene, and total xylenes      mg/kg: milligrams per kilogram GRO: gasoline range organics      NMOCD: New Mexico Oil Conservation Division DRO: diesel range organics      TPH: total petroleum hydrocarbons ft bgs: feet below ground surface NMOCD Table 1 Closure Criteria: NMAC 19.15.29 August 2018 criteria for soils impacted based on characterization										

# Attachment 01



Picture 1- DS01, North face

25-Sep-20



Picture 2- DS02, North face

25-Sep-20



Picture 3- DS03, North face

25-Sep-20



Picture 4- DS04, North face

25-Sep-20





Picture 5- DS05, North face

25-Sep-20



# Attachment 02



# Certificate of Analysis Summary 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM

**Project Name: RDX Federal 21-32**

**Project Id:**  
**Contact:** Lynda Laumbach  
**Project Location:** Eddy County, New Mexico

**Date Received in Lab:** Fri 09.25.2020 16:12  
**Report Date:** 09.29.2020 16:22  
**Project Manager:** Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673655-001	673655-002	673655-003	673655-004	673655-005	673655-006
	<i>Field Id:</i>	DS01	DS01 A	DS01 B	DS02	DS02 A	DS02 B
	<i>Depth:</i>	1- ft	2- ft	3- ft	1- ft	2- ft	3- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.25.2020 09:10	09.25.2020 09:15	09.25.2020 09:20	09.25.2020 09:25	09.25.2020 09:30	09.25.2020 09:35
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	09.28.2020 09:54	09.28.2020 09:54	09.28.2020 09:54	09.28.2020 09:54	09.28.2020 09:54	09.28.2020 09:54
	<i>Analyzed:</i>	09.28.2020 16:02	09.28.2020 16:25	09.28.2020 17:42	09.28.2020 18:05	09.28.2020 18:27	09.28.2020 18:50
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
m,p-Xylenes		<0.00397 0.00397	<0.00397 0.00397	<0.00399 0.00399	<0.00398 0.00398	<0.00401 0.00401	<0.00398 0.00398
o-Xylene		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Total BTEX		<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
<b>Chloride by EPA 300</b>	<i>Extracted:</i>	09.28.2020 12:52	09.28.2020 12:52	09.28.2020 12:52	09.28.2020 12:52	09.28.2020 12:52	09.28.2020 12:52
	<i>Analyzed:</i>	09.28.2020 13:55	09.28.2020 14:17	09.28.2020 14:23	09.28.2020 14:28	09.28.2020 14:34	09.28.2020 14:50
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1870 49.9	160 9.92	<10.0 10.0	3790 49.7	453 10.1	19.9 10.0
<b>TPH By SW8015 Mod</b>	<i>Extracted:</i>	09.28.2020 09:30	09.25.2020 16:40	09.25.2020 16:40	09.25.2020 16:40	09.25.2020 16:40	09.25.2020 16:40
	<i>Analyzed:</i>	09.28.2020 10:58	09.26.2020 00:48	09.26.2020 01:29	09.26.2020 01:49	09.26.2020 02:10	09.26.2020 02:29
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.2 50.2	<50.2 50.2	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.2 50.2	<50.2 50.2	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.2 50.2	<50.2 50.2	<49.9 49.9
Total TPH		<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.2 50.2	<50.2 50.2	<49.9 49.9

BRL - Below Reporting Limit

*Jessica Kramer*

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



# Certificate of Analysis Summary 673655

WPX Energy Permian Basin, LLC, Carlsbad, NM

Project Name: RDX Federal 21-32

**Project Id:**  
**Contact:** Lynda Laumbach  
**Project Location:** Eddy County, New Mexico

**Date Received in Lab:** Fri 09.25.2020 16:12  
**Report Date:** 09.29.2020 16:22  
**Project Manager:** Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673655-007		673655-008		673655-009		673655-010		673655-011		673655-012	
	<i>Field Id:</i>	DS03		DS03 A		DS03 B		DS04		DS04 A		DS05	
	<i>Depth:</i>	1- ft		2- ft		3.5- ft		1- ft		2- ft		1- ft	
	<i>Matrix:</i>	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	<i>Sampled:</i>	09.25.2020 09:40		09.25.2020 09:45		09.25.2020 09:50		09.25.2020 10:00		09.25.2020 10:10		09.25.2020 10:20	
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	09.28.2020 09:54		09.28.2020 09:54		09.28.2020 09:54		09.28.2020 09:54		09.28.2020 09:54		09.28.2020 09:54	
	<i>Analyzed:</i>	09.28.2020 19:12		09.28.2020 19:35		09.28.2020 19:57		09.28.2020 20:20		09.28.2020 20:42		09.28.2020 21:04	
	<i>Units/RL:</i>	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199
Toluene		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199
Ethylbenzene		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199
m,p-Xylenes		<0.00403	0.00403	<0.00401	0.00401	<0.00401	0.00401	<0.00403	0.00403	<0.00403	0.00403	<0.00398	0.00398
o-Xylene		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199
Total Xylenes		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199
Total BTEX		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199
<b>Chloride by EPA 300</b>	<i>Extracted:</i>	09.28.2020 12:52		09.28.2020 12:52		09.28.2020 12:52		09.28.2020 12:52		09.28.2020 12:52		09.28.2020 12:52	
	<i>Analyzed:</i>	09.28.2020 14:55		09.28.2020 15:01		09.28.2020 15:06		09.28.2020 15:12		09.28.2020 15:17		09.28.2020 15:34	
	<i>Units/RL:</i>	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		490	50.1	26.2	10.1	247	9.92	503	49.7	738	9.98	10.5	9.98
<b>TPH By SW8015 Mod</b>	<i>Extracted:</i>	09.25.2020 16:40		09.25.2020 16:40		09.25.2020 16:40		09.25.2020 16:40		09.25.2020 16:40		09.25.2020 16:40	
	<i>Analyzed:</i>	09.26.2020 02:50		09.26.2020 03:10		09.26.2020 03:30		09.26.2020 03:50		09.26.2020 04:10		09.26.2020 04:31	
	<i>Units/RL:</i>	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.8	49.8	<50.2	50.2	<50.2	50.2	<50.0	50.0	<50.0	50.0
Diesel Range Organics (DRO)		<49.8	49.8	<49.8	49.8	<50.2	50.2	<50.2	50.2	<50.0	50.0	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.8	49.8	<50.2	50.2	<50.2	50.2	<50.0	50.0	<50.0	50.0
Total TPH		<49.8	49.8	<49.8	49.8	<50.2	50.2	<50.2	50.2	<50.0	50.0	<50.0	50.0

BRL - Below Reporting Limit

*Jessica Kramer*

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico





# Certificate of Analysis Summary 673655

WPX Energy Permian Basin, LLC, Carlsbad, NM

Project Name: RDX Federal 21-32

**Project Id:**  
**Contact:** Lynda Laumbach  
**Project Location:** Eddy County, New Mexico

**Date Received in Lab:** Fri 09.25.2020 16:12  
**Report Date:** 09.29.2020 16:22  
**Project Manager:** Jessica Kramer

<b>Analysis Requested</b>	<b>Lab Id:</b>	673655-013				
	<b>Field Id:</b>	DS05 A				
	<b>Depth:</b>	2- ft				
	<b>Matrix:</b>	SOIL				
	<b>Sampled:</b>	09.25.2020 10:25				
<b>BTEX by EPA 8021B</b>	<b>Extracted:</b>	09.28.2020 15:09				
	<b>Analyzed:</b>	09.29.2020 08:48				
	<b>Units/RL:</b>	mg/kg RL				
	Benzene	<0.00199 0.00199				
	Toluene	<0.00199 0.00199				
	Ethylbenzene	<0.00199 0.00199				
	m,p-Xylenes	<0.00398 0.00398				
	o-Xylene	<0.00199 0.00199				
Total Xylenes	<0.00199 0.00199					
Total BTEX	<0.00199 0.00199					
<b>Chloride by EPA 300</b>	<b>Extracted:</b>	09.28.2020 12:52				
	<b>Analyzed:</b>	09.28.2020 15:39				
	<b>Units/RL:</b>	mg/kg RL				
Chloride	<10.0 10.0					
<b>TPH By SW8015 Mod</b>	<b>Extracted:</b>	09.28.2020 09:30				
	<b>Analyzed:</b>	09.28.2020 11:57				
	<b>Units/RL:</b>	mg/kg RL				
	Gasoline Range Hydrocarbons (GRO)	<49.9 49.9				
	Diesel Range Organics (DRO)	<49.9 49.9				
	Motor Oil Range Hydrocarbons (MRO)	<49.9 49.9				
Total TPH	<49.9 49.9					

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

*Jessica Kramer*



# Analytical Report 673655

for

## WPX Energy Permian Basin, LLC

Project Manager: Lynda Laumbach

RDX Federal 21-32

09.29.2020

Collected By: Client

**1089 N Canal Street  
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)  
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



09.29.2020

Project Manager: **Lynda Laumbach**  
**WPX Energy Permian Basin, LLC**  
5315 Buena Vista Dr.  
Carlsbad, NM 88220

Reference: Eurofins Xenco, LLC Report No(s): **673655**  
**RDX Federal 21-32**  
Project Address: Eddy County, New Mexico

**Lynda Laumbach:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 673655. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 673655 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

**Jessica Kramer**  
Project Manager

*A Small Business and Minority Company*

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



### Sample Cross Reference 673655

#### WPX Energy Permian Basin, LLC, Carlsbad, NM

RDX Federal 21-32

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
DS01	S	09.25.2020 09:10	1 ft	673655-001
DS01 A	S	09.25.2020 09:15	2 ft	673655-002
DS01 B	S	09.25.2020 09:20	3 ft	673655-003
DS02	S	09.25.2020 09:25	1 ft	673655-004
DS02 A	S	09.25.2020 09:30	2 ft	673655-005
DS02 B	S	09.25.2020 09:35	3 ft	673655-006
DS03	S	09.25.2020 09:40	1 ft	673655-007
DS03 A	S	09.25.2020 09:45	2 ft	673655-008
DS03 B	S	09.25.2020 09:50	3.5 ft	673655-009
DS04	S	09.25.2020 10:00	1 ft	673655-010
DS04 A	S	09.25.2020 10:10	2 ft	673655-011
DS05	S	09.25.2020 10:20	1 ft	673655-012
DS05 A	S	09.25.2020 10:25	2 ft	673655-013



## CASE NARRATIVE

**Client Name: WPX Energy Permian Basin, LLC**

**Project Name: RDX Federal 21-32**

Project ID:  
Work Order Number(s): 673655

Report Date: 09.29.2020  
Date Received: 09.25.2020

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**Sample receipt non conformances and comments:**

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**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: <b>DS01</b>	Matrix: Soil	Date Received: 09.25.2020 16:12
Lab Sample Id: 673655-001	Date Collected: 09.25.2020 09:10	Sample Depth: 1 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.28.2020 12:52	Basis: Wet Weight
Seq Number: 3138340		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1870	49.9	mg/kg	09.28.2020 13:55		5

Analytical Method: TPH By SW8015 Mod		Prep Method: SW8015P
Tech: DTH		% Moisture:
Analyst: DTH	Date Prep: 09.28.2020 09:30	Basis: Wet Weight
Seq Number: 3138270		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.28.2020 10:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.28.2020 10:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.28.2020 10:58	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.28.2020 10:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	09.28.2020 10:58	
o-Terphenyl	84-15-1	92	%	70-135	09.28.2020 10:58	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: <b>DS01</b>	Matrix: Soil	Date Received: 09.25.2020 16:12
Lab Sample Id: 673655-001	Date Collected: 09.25.2020 09:10	Sample Depth: 1 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.28.2020 09:54	Basis: Wet Weight
Seq Number: 3138298		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.28.2020 16:02	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.28.2020 16:02	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.28.2020 16:02	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.28.2020 16:02	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.28.2020 16:02	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.28.2020 16:02	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.28.2020 16:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.28.2020 16:02	
4-Bromofluorobenzene	460-00-4	91	%	70-130	09.28.2020 16:02	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: **DS01 A** Matrix: Soil Date Received: 09.25.2020 16:12  
 Lab Sample Id: 673655-002 Date Collected: 09.25.2020 09:15 Sample Depth: 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 09.28.2020 12:52 Basis: Wet Weight  
 Seq Number: 3138340

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	160	9.92	mg/kg	09.28.2020 14:17		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 09.25.2020 16:40 Basis: Wet Weight  
 Seq Number: 3138232

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.26.2020 00:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.26.2020 00:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.26.2020 00:48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.26.2020 00:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	09.26.2020 00:48	
o-Terphenyl	84-15-1	86	%	70-135	09.26.2020 00:48	





# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: <b>DS01 A</b>	Matrix: Soil	Date Received: 09.25.2020 16:12
Lab Sample Id: 673655-002	Date Collected: 09.25.2020 09:15	Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.28.2020 09:54	Basis: Wet Weight
Seq Number: 3138298		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.28.2020 16:25	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.28.2020 16:25	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.28.2020 16:25	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.28.2020 16:25	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.28.2020 16:25	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.28.2020 16:25	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.28.2020 16:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.28.2020 16:25	
4-Bromofluorobenzene	460-00-4	91	%	70-130	09.28.2020 16:25	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM

RDX Federal 21-32

Sample Id: <b>DS01 B</b>	Matrix: Soil	Date Received: 09.25.2020 16:12
Lab Sample Id: 673655-003	Date Collected: 09.25.2020 09:20	Sample Depth: 3 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.28.2020 12:52	Basis: Wet Weight
Seq Number: 3138340		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.0	10.0	mg/kg	09.28.2020 14:23	U	1

Analytical Method: TPH By SW8015 Mod		Prep Method: SW8015P
Tech: DTH		% Moisture:
Analyst: DTH	Date Prep: 09.25.2020 16:40	Basis: Wet Weight
Seq Number: 3138232		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.26.2020 01:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.26.2020 01:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.26.2020 01:29	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.26.2020 01:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	09.26.2020 01:29	
o-Terphenyl	84-15-1	88	%	70-135	09.26.2020 01:29	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM

RDX Federal 21-32

Sample Id: <b>DS01 B</b>	Matrix: Soil	Date Received: 09.25.2020 16:12
Lab Sample Id: 673655-003	Date Collected: 09.25.2020 09:20	Sample Depth: 3 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.28.2020 09:54	Basis: Wet Weight
Seq Number: 3138298		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.28.2020 17:42	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.28.2020 17:42	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.28.2020 17:42	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.28.2020 17:42	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.28.2020 17:42	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.28.2020 17:42	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.28.2020 17:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.28.2020 17:42	
4-Bromofluorobenzene	460-00-4	88	%	70-130	09.28.2020 17:42	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM

RDX Federal 21-32

Sample Id: <b>DS02</b>	Matrix: Soil	Date Received: 09.25.2020 16:12
Lab Sample Id: 673655-004	Date Collected: 09.25.2020 09:25	Sample Depth: 1 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.28.2020 12:52	Basis: Wet Weight
Seq Number: 3138340		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3790	49.7	mg/kg	09.28.2020 14:28		5

Analytical Method: TPH By SW8015 Mod		Prep Method: SW8015P
Tech: DTH		% Moisture:
Analyst: DTH	Date Prep: 09.25.2020 16:40	Basis: Wet Weight
Seq Number: 3138232		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	09.26.2020 01:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	09.26.2020 01:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	09.26.2020 01:49	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	09.26.2020 01:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	09.26.2020 01:49	
o-Terphenyl	84-15-1	90	%	70-135	09.26.2020 01:49	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: <b>DS02</b>	Matrix: Soil	Date Received: 09.25.2020 16:12
Lab Sample Id: 673655-004	Date Collected: 09.25.2020 09:25	Sample Depth: 1 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.28.2020 09:54	Basis: Wet Weight
Seq Number: 3138298		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.28.2020 18:05	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.28.2020 18:05	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.28.2020 18:05	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.28.2020 18:05	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.28.2020 18:05	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.28.2020 18:05	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.28.2020 18:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	09.28.2020 18:05	
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.28.2020 18:05	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM

RDX Federal 21-32

Sample Id: <b>DS02 A</b>	Matrix: Soil	Date Received: 09.25.2020 16:12
Lab Sample Id: 673655-005	Date Collected: 09.25.2020 09:30	Sample Depth: 2 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.28.2020 12:52	Basis: Wet Weight
Seq Number: 3138340		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	453	10.1	mg/kg	09.28.2020 14:34		1

Analytical Method: TPH By SW8015 Mod		Prep Method: SW8015P
Tech: DTH		% Moisture:
Analyst: DTH	Date Prep: 09.25.2020 16:40	Basis: Wet Weight
Seq Number: 3138232		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	09.26.2020 02:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	09.26.2020 02:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	09.26.2020 02:10	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	09.26.2020 02:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	09.26.2020 02:10	
o-Terphenyl	84-15-1	91	%	70-135	09.26.2020 02:10	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: <b>DS02 A</b>	Matrix: Soil	Date Received: 09.25.2020 16:12
Lab Sample Id: 673655-005	Date Collected: 09.25.2020 09:30	Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.28.2020 09:54	Basis: Wet Weight
Seq Number: 3138298		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.28.2020 18:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.28.2020 18:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.28.2020 18:27	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.28.2020 18:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.28.2020 18:27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.28.2020 18:27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.28.2020 18:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	09.28.2020 18:27	
4-Bromofluorobenzene	460-00-4	84	%	70-130	09.28.2020 18:27	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM

RDX Federal 21-32

Sample Id: **DS02 B** Matrix: Soil Date Received: 09.25.2020 16:12  
 Lab Sample Id: 673655-006 Date Collected: 09.25.2020 09:35 Sample Depth: 3 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 09.28.2020 12:52 Basis: Wet Weight  
 Seq Number: 3138340

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.9	10.0	mg/kg	09.28.2020 14:50		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 09.25.2020 16:40 Basis: Wet Weight  
 Seq Number: 3138232

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.26.2020 02:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.26.2020 02:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.26.2020 02:29	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.26.2020 02:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	09.26.2020 02:29	
o-Terphenyl	84-15-1	93	%	70-135	09.26.2020 02:29	





# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: <b>DS02 B</b>	Matrix: Soil	Date Received: 09.25.2020 16:12
Lab Sample Id: 673655-006	Date Collected: 09.25.2020 09:35	Sample Depth: 3 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.28.2020 09:54	Basis: Wet Weight
Seq Number: 3138298		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.28.2020 18:50	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.28.2020 18:50	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.28.2020 18:50	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.28.2020 18:50	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.28.2020 18:50	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.28.2020 18:50	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.28.2020 18:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	09.28.2020 18:50	
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.28.2020 18:50	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: **DS03** Matrix: Soil Date Received: 09.25.2020 16:12  
 Lab Sample Id: 673655-007 Date Collected: 09.25.2020 09:40 Sample Depth: 1 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 09.28.2020 12:52 Basis: Wet Weight  
 Seq Number: 3138340

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	490	50.1	mg/kg	09.28.2020 14:55		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 09.25.2020 16:40 Basis: Wet Weight  
 Seq Number: 3138232

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.26.2020 02:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.26.2020 02:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.26.2020 02:50	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.26.2020 02:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	09.26.2020 02:50	
o-Terphenyl	84-15-1	94	%	70-135	09.26.2020 02:50	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: <b>DS03</b>	Matrix: Soil	Date Received: 09.25.2020 16:12
Lab Sample Id: 673655-007	Date Collected: 09.25.2020 09:40	Sample Depth: 1 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.28.2020 09:54	Basis: Wet Weight
Seq Number: 3138298		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.28.2020 19:12	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.28.2020 19:12	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.28.2020 19:12	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.28.2020 19:12	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.28.2020 19:12	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.28.2020 19:12	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.28.2020 19:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.28.2020 19:12	
4-Bromofluorobenzene	460-00-4	90	%	70-130	09.28.2020 19:12	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: **DS03 A** Matrix: Soil Date Received: 09.25.2020 16:12  
 Lab Sample Id: 673655-008 Date Collected: 09.25.2020 09:45 Sample Depth: 2 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 09.28.2020 12:52 Basis: Wet Weight  
 Seq Number: 3138340

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	26.2	10.1	mg/kg	09.28.2020 15:01		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 09.25.2020 16:40 Basis: Wet Weight  
 Seq Number: 3138232

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.26.2020 03:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.26.2020 03:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.26.2020 03:10	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.26.2020 03:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	09.26.2020 03:10	
o-Terphenyl	84-15-1	96	%	70-135	09.26.2020 03:10	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: <b>DS03 A</b>	Matrix: Soil	Date Received: 09.25.2020 16:12
Lab Sample Id: 673655-008	Date Collected: 09.25.2020 09:45	Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.28.2020 09:54	Basis: Wet Weight
Seq Number: 3138298		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.28.2020 19:35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.28.2020 19:35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.28.2020 19:35	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.28.2020 19:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.28.2020 19:35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.28.2020 19:35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.28.2020 19:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.28.2020 19:35	
4-Bromofluorobenzene	460-00-4	93	%	70-130	09.28.2020 19:35	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: **DS03 B** Matrix: Soil Date Received: 09.25.2020 16:12  
 Lab Sample Id: 673655-009 Date Collected: 09.25.2020 09:50 Sample Depth: 3.5 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 09.28.2020 12:52 Basis: Wet Weight  
 Seq Number: 3138340

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	247	9.92	mg/kg	09.28.2020 15:06		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 09.25.2020 16:40 Basis: Wet Weight  
 Seq Number: 3138232

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	09.26.2020 03:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	09.26.2020 03:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	09.26.2020 03:30	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	09.26.2020 03:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	09.26.2020 03:30	
o-Terphenyl	84-15-1	93	%	70-135	09.26.2020 03:30	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: <b>DS03 B</b>	Matrix: Soil	Date Received: 09.25.2020 16:12
Lab Sample Id: 673655-009	Date Collected: 09.25.2020 09:50	Sample Depth: 3.5 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.28.2020 09:54	Basis: Wet Weight
Seq Number: 3138298		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.28.2020 19:57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.28.2020 19:57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.28.2020 19:57	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.28.2020 19:57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.28.2020 19:57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.28.2020 19:57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.28.2020 19:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.28.2020 19:57	
4-Bromofluorobenzene	460-00-4	92	%	70-130	09.28.2020 19:57	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM

RDX Federal 21-32

Sample Id: **DS04** Matrix: Soil Date Received: 09.25.2020 16:12  
 Lab Sample Id: 673655-010 Date Collected: 09.25.2020 10:00 Sample Depth: 1 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 09.28.2020 12:52 Basis: Wet Weight  
 Seq Number: 3138340

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	503	49.7	mg/kg	09.28.2020 15:12		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 09.25.2020 16:40 Basis: Wet Weight  
 Seq Number: 3138232

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	09.26.2020 03:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	09.26.2020 03:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	09.26.2020 03:50	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	09.26.2020 03:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	09.26.2020 03:50	
o-Terphenyl	84-15-1	93	%	70-135	09.26.2020 03:50	





# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: **DS04** Matrix: Soil Date Received: 09.25.2020 16:12  
 Lab Sample Id: 673655-010 Date Collected: 09.25.2020 10:00 Sample Depth: 1 ft  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 09.28.2020 09:54 Basis: Wet Weight  
 Seq Number: 3138298

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.28.2020 20:20	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.28.2020 20:20	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.28.2020 20:20	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.28.2020 20:20	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.28.2020 20:20	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.28.2020 20:20	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.28.2020 20:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	09.28.2020 20:20	
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.28.2020 20:20	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: <b>DS04 A</b>	Matrix: Soil	Date Received: 09.25.2020 16:12
Lab Sample Id: 673655-011	Date Collected: 09.25.2020 10:10	Sample Depth: 2 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.28.2020 12:52	Basis: Wet Weight
Seq Number: 3138340		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	738	9.98	mg/kg	09.28.2020 15:17		1

Analytical Method: TPH By SW8015 Mod		Prep Method: SW8015P
Tech: DTH		% Moisture:
Analyst: DTH	Date Prep: 09.25.2020 16:40	Basis: Wet Weight
Seq Number: 3138232		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.26.2020 04:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.26.2020 04:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.26.2020 04:10	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.26.2020 04:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	09.26.2020 04:10	
o-Terphenyl	84-15-1	91	%	70-135	09.26.2020 04:10	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: <b>DS04 A</b>	Matrix: Soil	Date Received: 09.25.2020 16:12
Lab Sample Id: 673655-011	Date Collected: 09.25.2020 10:10	Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.28.2020 09:54	Basis: Wet Weight
Seq Number: 3138298		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.28.2020 20:42	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.28.2020 20:42	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.28.2020 20:42	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.28.2020 20:42	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.28.2020 20:42	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.28.2020 20:42	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.28.2020 20:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.28.2020 20:42	
4-Bromofluorobenzene	460-00-4	91	%	70-130	09.28.2020 20:42	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: **DS05** Matrix: Soil Date Received: 09.25.2020 16:12  
 Lab Sample Id: 673655-012 Date Collected: 09.25.2020 10:20 Sample Depth: 1 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB % Moisture:  
 Analyst: MAB Date Prep: 09.28.2020 12:52 Basis: Wet Weight  
 Seq Number: 3138340

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.5	9.98	mg/kg	09.28.2020 15:34		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P  
 Tech: DTH % Moisture:  
 Analyst: DTH Date Prep: 09.25.2020 16:40 Basis: Wet Weight  
 Seq Number: 3138232

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.26.2020 04:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.26.2020 04:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.26.2020 04:31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.26.2020 04:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	09.26.2020 04:31	
o-Terphenyl	84-15-1	97	%	70-135	09.26.2020 04:31	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: <b>DS05</b>	Matrix: Soil	Date Received: 09.25.2020 16:12
Lab Sample Id: 673655-012	Date Collected: 09.25.2020 10:20	Sample Depth: 1 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.28.2020 09:54	Basis: Wet Weight
Seq Number: 3138298		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.28.2020 21:04	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.28.2020 21:04	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.28.2020 21:04	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.28.2020 21:04	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.28.2020 21:04	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.28.2020 21:04	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.28.2020 21:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.28.2020 21:04	
4-Bromofluorobenzene	460-00-4	90	%	70-130	09.28.2020 21:04	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM

RDX Federal 21-32

Sample Id: <b>DS05 A</b>	Matrix: Soil	Date Received: 09.25.2020 16:12
Lab Sample Id: 673655-013	Date Collected: 09.25.2020 10:25	Sample Depth: 2 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.28.2020 12:52	Basis: Wet Weight
Seq Number: 3138340		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.0	10.0	mg/kg	09.28.2020 15:39	U	1

Analytical Method: TPH By SW8015 Mod		Prep Method: SW8015P
Tech: DTH		% Moisture:
Analyst: DTH	Date Prep: 09.28.2020 09:30	Basis: Wet Weight
Seq Number: 3138270		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.28.2020 11:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.28.2020 11:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.28.2020 11:57	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.28.2020 11:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	09.28.2020 11:57	
o-Terphenyl	84-15-1	97	%	70-135	09.28.2020 11:57	



# Certificate of Analytical Results 673655

## WPX Energy Permian Basin, LLC, Carlsbad, NM RDX Federal 21-32

Sample Id: <b>DS05 A</b>	Matrix: Soil	Date Received: 09.25.2020 16:12
Lab Sample Id: 673655-013	Date Collected: 09.25.2020 10:25	Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.28.2020 15:09	Basis: Wet Weight
Seq Number: 3138397		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.29.2020 08:48	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.29.2020 08:48	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.29.2020 08:48	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.29.2020 08:48	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.29.2020 08:48	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.29.2020 08:48	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.29.2020 08:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	09.29.2020 08:48	
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.29.2020 08:48	







WPX Energy Permian Basin, LLC  
RDX Federal 21-32

Analytical Method: Chloride by EPA 300

Seq Number: 3138340  
MB Sample Id: 7712194-1-BLK

Matrix: Solid

LCS Sample Id: 7712194-1-BKS

Prep Method: E300P

Date Prep: 09.28.2020

LCSD Sample Id: 7712194-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	254	102	253	101	90-110	0	20	mg/kg	09.28.2020 13:44	

Analytical Method: Chloride by EPA 300

Seq Number: 3138340  
Parent Sample Id: 673655-001

Matrix: Soil

MS Sample Id: 673655-001 S

Prep Method: E300P

Date Prep: 09.28.2020

MSD Sample Id: 673655-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1870	200	2070	100	2090	110	90-110	1	20	mg/kg	09.28.2020 14:01	

Analytical Method: Chloride by EPA 300

Seq Number: 3138340  
Parent Sample Id: 673655-011

Matrix: Soil

MS Sample Id: 673655-011 S

Prep Method: E300P

Date Prep: 09.28.2020

MSD Sample Id: 673655-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	738	200	936	99	932	97	90-110	0	20	mg/kg	09.28.2020 15:23	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138232  
MB Sample Id: 7712116-1-BLK

Matrix: Solid

LCS Sample Id: 7712116-1-BKS

Prep Method: SW8015P

Date Prep: 09.25.2020

LCSD Sample Id: 7712116-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	896	90	890	89	70-135	1	35	mg/kg	09.25.2020 20:26	
Diesel Range Organics (DRO)	<50.0	1000	780	78	769	77	70-135	1	35	mg/kg	09.25.2020 20:26	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	87		129		130		70-135	%	09.25.2020 20:26
o-Terphenyl	84		120		121		70-135	%	09.25.2020 20:26

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138270  
MB Sample Id: 7712204-1-BLK

Matrix: Solid

LCS Sample Id: 7712204-1-BKS

Prep Method: SW8015P

Date Prep: 09.28.2020

LCSD Sample Id: 7712204-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	885	89	876	88	70-135	1	35	mg/kg	09.28.2020 10:13	
Diesel Range Organics (DRO)	<50.0	1000	760	76	759	76	70-135	0	35	mg/kg	09.28.2020 10:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		133		128		70-135	%	09.28.2020 10:13
o-Terphenyl	90		120		122		70-135	%	09.28.2020 10:13

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

[D] = 100\*(C-A) / B  
RPD = 200\* | (C-E) / (C+E) |  
[D] = 100 \* (C) / [B]  
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



# QC Summary 673655

## WPX Energy Permian Basin, LLC RDX Federal 21-32

**Analytical Method:** TPH By SW8015 Mod  
Seq Number: 3138232

Matrix: Solid  
MB Sample Id: 7712116-1-BLK

Prep Method: SW8015P  
Date Prep: 09.25.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.25.2020 20:06	

**Analytical Method:** TPH By SW8015 Mod  
Seq Number: 3138270

Matrix: Solid  
MB Sample Id: 7712204-1-BLK

Prep Method: SW8015P  
Date Prep: 09.28.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.28.2020 09:53	

**Analytical Method:** TPH By SW8015 Mod  
Seq Number: 3138232  
Parent Sample Id: 673636-001

Matrix: Soil  
MS Sample Id: 673636-001 S

Prep Method: SW8015P  
Date Prep: 09.25.2020  
MSD Sample Id: 673636-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1040	104	1040	104	70-135	0	35	mg/kg	09.25.2020 21:27	
Diesel Range Organics (DRO)	<50.0	1000	1080	108	1080	108	70-135	0	35	mg/kg	09.25.2020 21:27	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	120		121		70-135	%	09.25.2020 21:27
o-Terphenyl	97		98		70-135	%	09.25.2020 21:27

**Analytical Method:** TPH By SW8015 Mod  
Seq Number: 3138270  
Parent Sample Id: 673655-001

Matrix: Soil  
MS Sample Id: 673655-001 S

Prep Method: SW8015P  
Date Prep: 09.28.2020  
MSD Sample Id: 673655-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	983	98	958	95	70-135	3	35	mg/kg	09.28.2020 11:17	
Diesel Range Organics (DRO)	<50.1	1000	1010	101	990	98	70-135	2	35	mg/kg	09.28.2020 11:17	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	128		110		70-135	%	09.28.2020 11:17
o-Terphenyl	99		97		70-135	%	09.28.2020 11:17

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

[D] = 100\*(C-A) / B  
RPD = 200\* | (C-E) / (C+E) |  
[D] = 100 \* (C) / [B]  
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



WPX Energy Permian Basin, LLC  
RDX Federal 21-32

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138298

MB Sample Id: 7712179-1-BLK

Matrix: Solid

LCS Sample Id: 7712179-1-BKS

Prep Method: SW5035A

Date Prep: 09.28.2020

LCSD Sample Id: 7712179-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0900	90	0.0926	93	70-130	3	35	mg/kg	09.28.2020 10:37	
Toluene	<0.00200	0.100	0.0892	89	0.0917	92	70-130	3	35	mg/kg	09.28.2020 10:37	
Ethylbenzene	<0.00200	0.100	0.0846	85	0.0865	87	71-129	2	35	mg/kg	09.28.2020 10:37	
m,p-Xylenes	<0.00400	0.200	0.170	85	0.174	87	70-135	2	35	mg/kg	09.28.2020 10:37	
o-Xylene	<0.00200	0.100	0.0829	83	0.0850	85	71-133	3	35	mg/kg	09.28.2020 10:37	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		95		97		70-130	%	09.28.2020 10:37
4-Bromofluorobenzene	88		84		85		70-130	%	09.28.2020 10:37

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138397

MB Sample Id: 7712295-1-BLK

Matrix: Solid

LCS Sample Id: 7712295-1-BKS

Prep Method: SW5035A

Date Prep: 09.28.2020

LCSD Sample Id: 7712295-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.110	110	0.105	105	70-130	5	35	mg/kg	09.28.2020 22:45	
Toluene	<0.00200	0.100	0.106	106	0.102	102	70-130	4	35	mg/kg	09.28.2020 22:45	
Ethylbenzene	<0.00200	0.100	0.0979	98	0.0937	94	71-129	4	35	mg/kg	09.28.2020 22:45	
m,p-Xylenes	<0.00400	0.200	0.198	99	0.190	95	70-135	4	35	mg/kg	09.28.2020 22:45	
o-Xylene	<0.00200	0.100	0.0979	98	0.0942	94	71-133	4	35	mg/kg	09.28.2020 22:45	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		99		99		70-130	%	09.28.2020 22:45
4-Bromofluorobenzene	88		90		92		70-130	%	09.28.2020 22:45

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138298

Parent Sample Id: 673687-001

Matrix: Soil

MS Sample Id: 673687-001 S

Prep Method: SW5035A

Date Prep: 09.28.2020

MSD Sample Id: 673687-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0971	97	0.125	125	70-130	25	35	mg/kg	09.28.2020 15:40	
Toluene	<0.00200	0.0998	0.0944	95	0.123	123	70-130	26	35	mg/kg	09.28.2020 15:40	
Ethylbenzene	<0.00200	0.0998	0.0884	89	0.114	114	71-129	25	35	mg/kg	09.28.2020 15:40	
m,p-Xylenes	<0.00399	0.200	0.177	89	0.231	116	70-135	26	35	mg/kg	09.28.2020 15:40	
o-Xylene	<0.00200	0.0998	0.0876	88	0.113	113	71-133	25	35	mg/kg	09.28.2020 15:40	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		97		70-130	%	09.28.2020 15:40
4-Bromofluorobenzene	86		92		70-130	%	09.28.2020 15:40

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

[D] = 100\*(C-A) / B  
RPD = 200\* |(C-E) / (C+E)|  
[D] = 100 \* (C) / [B]  
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec



# QC Summary 673655

## WPX Energy Permian Basin, LLC RDX Federal 21-32

**Analytical Method:** BTEX by EPA 8021B

Seq Number: 3138397

Parent Sample Id: 673706-021

Matrix: Soil

MS Sample Id: 673706-021 S

Prep Method: SW5035A

Date Prep: 09.28.2020

MSD Sample Id: 673706-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.103	103	0.0983	98	70-130	5	35	mg/kg	09.28.2020 23:29	
Toluene	<0.00200	0.0998	0.0947	95	0.0964	97	70-130	2	35	mg/kg	09.28.2020 23:29	
Ethylbenzene	<0.00200	0.0998	0.0829	83	0.0889	89	71-129	7	35	mg/kg	09.28.2020 23:29	
m,p-Xylenes	<0.00399	0.200	0.164	82	0.178	89	70-135	8	35	mg/kg	09.28.2020 23:29	
o-Xylene	<0.00200	0.0998	0.0833	83	0.0895	90	71-133	7	35	mg/kg	09.28.2020 23:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		97		70-130	%	09.28.2020 23:29
4-Bromofluorobenzene	88		86		70-130	%	09.28.2020 23:29

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. =  $\text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample  
 A = Parent Result  
 C = MS/LCS Result  
 E = MSD/LCSD Result

MS = Matrix Spike  
 B = Spike Added  
 D = MSD/LCSD % Rec





# Eurofins Xenco, LLC

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** WPX Energy Permian Basin, LLC

**Date/ Time Received:** 09.25.2020 04.12.00 PM

**Work Order #:** 673655

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :** T\_NM\_007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6*Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

Samples received in bulk containers.

**\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

**Checklist completed by:** Cloe Clifton  
 Cloe Clifton

Date: 09.25.2020

**Checklist reviewed by:** Jessica Kramer  
 Jessica Kramer

Date: 09.28.2020

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 201016

**CONDITIONS**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 201016
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

**CONDITIONS**

Created By	Condition	Condition Date
amaxwell	Closure approved. However, release is subject to 19.15.29.13 NMAC Restoration, Reclamation, and Revegetation. The reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. Chloride levels will need to be addressed during P&A activities. Submit a report verifying that 19.15.29.13 NMAC stipulations have been met for the site to be released upon completion of P&A activities.	3/29/2023