District I 1625 N. French Dr., Hobbs, NM 88240

State of New Mexico Energy Minerals and Natural Resources

NOV 01 2017

Form C-141 Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC. **RECEIVED**

NM OIL CONSERVATION

ARTESIA DISTRICT

	Paleaca Natification and Correct
1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505
District IV	1220 South St. Francis Dr.
District III 1000 Rio Brazos Road, Aztec, NM 87410	Oil Conservation Division
811 S. First St., Artesia, NM 88210	
District II	Energy Minerals and Natural Reso

1220 S. St. Fran	ncis Dr., Sant	a Fe, NM 8750	5	S	anta Fe	, NM 875	605		2 200	X 2		
	1.1.		Rel	ease Notifi	cation	and Co	orrective A	ction	1			
NABIT	1306A	0185			1 100	OPERA'			Initi	al Report	Final	Report
		RKI Explora	tion/WP2	Energy 341		Contact Jim						
Address 53			1				No. 575-689-75	597				
Facility Na	me KDX	Federal 21-4	3		- 10	racility Typ	e Well Pad					
Surface Ov	vner Feder	ral		Mineral (Owner F	ederal			API No	. 30-015-	40997	
				LOC	ATION	OF RE	LEASE					
Unit Letter O	Section 21	Township 26S	Range 30E	Feet from the 715	North/ South	South Line	Feet from the 2135	East/We	est Line	County Eddy		
			Lat	itude_32.02245				AD 83				
m cn i	07.5	132.6.91		NA	LUKE	OF REL		10	17.1	10		
Type of Rele Source of Re							Release 7 bbls Hour of Occurrence			Recovered 0 Hour of Dis		
	d.b.ebl.Bula					10/21/201	7			17 2:10 PM		
Was Immed	iate Notice (Yes [No Not R	tequired	If YES, To OCD: Cry	Whom? stal Weaver and I	Mike Brate	cher, BLI	M Shelly Tu	cker	
By Whom?							Hour 10/23/2017,		V 10			
Was a Water	rcourse Rea		Yes D	No No		If YES, V	olume Impacting	the Water	course.			
If a Waterco	ourse was In	pacted, Desc	ribe Fully.	*		1						
N/A												
Describe Ca	use of Prob	lem and Reme	edial Action	n Taken.*								
		s equipment fa e to equipmen		fing box develope	ed small l	eak, Approx	imately 7 bbls of	oil and w	ater was s	spilled on lo	cation, Well w	as
Describe Ar	ea Affected	and Cleanup	Action Ta	ken.*					-			
The impacte and transpor to OCD for	rted to dispo	immediately r sal. Confirma	napped w tion samp	th a Trimble to do les will be collect	elineate ti ted and ar	he horizonta nalyzed for T	extent of the imp PH, BTEX and C	pacts. Soil Chlorides.	s impacte The labor	d by this sp ratory result	ill will be remo s will be subm	oved itted
regulations a public health should their or the enviro	all operators h or the envi operations l onment. In	are required ironment. The have failed to	to report a e acceptar adequatel OCD acce	e is true and com ind/or file certain ice of a C-141 rep y investigate and ptance of a C-141	release no ort by the remediate	otifications a NMOCD n e contaminat	and perform corre narked as "Final Fi ion that pose a the we the operator of	ctive action Report" do reat to gro responsib	ons for rel bes not rel bund wate bility for o	eases which ieve the ope r, surface w compliance	n may endanger erator of liabilit rater, human he with any other	r ty ealth
Signature:	Kan	lina Bli	aney				OIL CON				-5	
Printed Nan	ne: Karolin:	a Blanev	0			Approved by	Environmental Signed B	peter	4 8	Canada		
Title: Enviro						Approval Da	ate: 142117	E	xpiration	Date: N	IA	
		ıa.blaney@wp	energy.c	om		Conditions of	of Approval:	lar for	3	Attached	טלים אלים	21
Dote: 11/	1/2017		Dhan	. 070 500 0742			SPP) at	MILMA	α	1 2	2V-4411	X

^{*} Attach Additional Sheets If Necessary

Incident ID NAB1720640195

Incident ID NAB1730640185
District RP 2RP-4464
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 X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes X 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 X No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes X 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 X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes X 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 X No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X No
Attach a comprehensive report (electronic submittals in .ndf format are preferred) demonstrating the lateral and war	tical extents of soil

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.

- X Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- X Field data
- X Data table of soil contaminant concentration data
- X Depth to water determination
- X Boring or excavation logs
- X Photographs including date and GIS information
- Topographic/Aerial maps
- X 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.

Received by OCD: 9/28/2021 9:43:31 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 3 of	<i>76</i>
Incident ID	NAB1730640185	
District RP	2RP-4464	
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. _____ Title: ___ Environmental Professional Lynda Laumbach Printed Name: Date: 05/21/2021 Signature: Telephone: (575)725-1647 email: Lynda.Laumbach@dvn.com **OCD Only** Received by: Date: _____

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Incident ID	NAB1730640185
District RP	2RP-4464
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.

	-
X A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Note That 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
X Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
X Description of remediation activities	
and regulations all operators are required to report and/or file certal may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
OCD Only	
Received by: OCD	Date: 9/8/2021
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by: Ashley Maxwell	Date: 9/14/2022
Closure Approved by: Ashley Maxwell Printed Name: Ashley Maxwell	Title: Environmental Specialist



May 21, 2021 Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210

Re: RDX Federal 21 #043 Release Closure Request (NAB1730640185)

Mr. Bratcher,

This report summarizes the sampling activities at the RDX Federal 21 #043 well pad (Site). The site map is provided as Figure 01. On October 21, 2017, the stuffing box developed a small leak causing 7 barrels of mixed production fluids (oil and produced water) to be released around the wellhead. No fluids were reported to have been recovered.

Well Location: RDX Federal 21 #043

API #:30-015-40997

NMOCD Reference #: NAB1730640185

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

Release Latitude/Longitude: N32.02261, W103.88458

Land Jurisdiction: Federal

Estimated Depth to Groundwater: >100 feet, Attachment 01 Water Wells

NMOCD Site Characterization Standards: 20,000 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) *Characterization in C-141 at the beginning of this report

Field Activities

On January 22, 2020, personnel were onsite to delineate the release area and collect samples TT1 through TT4 at depths of 2 to 10 feet below ground surface (bgs). On May 12, 2021, the location was revisited to collect delineation samples at depths 0.5 and 1 foot bgs, outside of the initial release area. All delineation sample locations and the release area are depicted in Figure 02 and photographs of the location are in Attachment 02.

Sampling Activities and Laboratory Analytical Results

Delineation samples were taken via one-point discrete sampling. All delineation samples taken on January 22, 2020 confirm complete vertical delineation. All delineation samples taken on May 12, 2021 were below the allowable standards for Chlorides, BTEX, and TPH and confirm complete lateral delineation of the release. All sample results are summarized in Table 01 and Table 02 and complete lab results are provided in Attachment 03.

- Chlorides analysis ranged from 25 mg/kg to 7,190 mg/kg
- BTEX 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 NAB1730640185 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@dvn.com.

Best regards,

Lynda Laumbach

Environmental Professional

CC: Robert Hamlet, NMOCD Victoria Venegas, NMOCD Chad Hensley, NMOCD

Attachments:

Figure 01 Site Map

Figure 02 Delineation Activities

Table 01 Delineation Results January 20, 2020

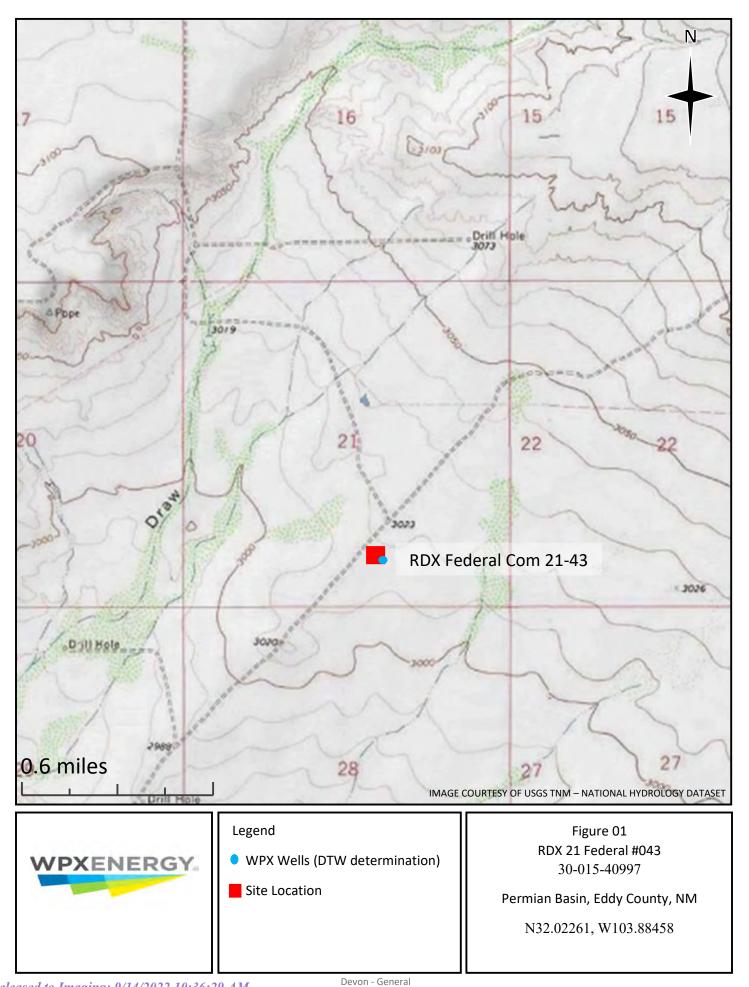
Table 02 Delineation Results May 12, 2021

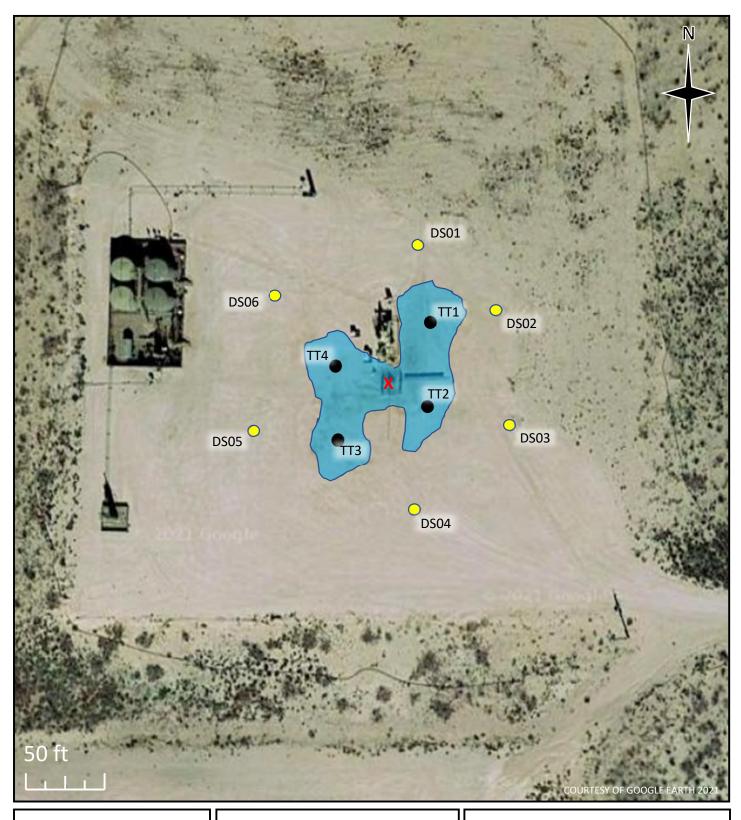
Attachment 01 RDX/RDU Depth to Water Report

Attachment 02 Photograph Log

Attachment 03 Laboratory Analytical Results

Figures







Legend

X Point of Release

Release Extent

Figure 02 RDX 21 Federal #043 30-015-40997 Permian Basin, Eddy County, NM N32.02261, W103.88458

Table(s)

TABLE 01 SOIL SAMPLE ANALYTICAL RESULTS



RDX FEDERAL 21 #043

NMOCD REFERENCE NUMBER: NAB1730640185 (2RP-4464)

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)
TT1	2	1/22/2020	<0.0250	-	<20.0	<25.0	<50.0	-	-	7190
TT1	6	1/22/2020	<0.0250	-	<20.0	<25.0	<50.0	-	-	520
TT2	2	1/22/2020	<0.0250	-	<20.0	<25.0	<50.0	-	-	636
TT2	6	1/22/2020	<0.0250	-	<20.0	<25.0	<50.0	-	-	238
TT3	2	1/22/2020	<0.0250	-	<20.0	<25.0	<50.0	-	-	3560
TT3	8	1/22/2020	<0.0250	-	<20.0	<25.0	<50.0	-	-	563
TT4	2	1/22/2020	<0.0250	-	<20.0	<25.0	<50.0	-	-	6600
TT4 10 1/22/2020		<0.0250	-	<20.0	<25.0	<50.0	-	-	583	
NMOCD Table 1	Closure Cı	riteria	10	50	NE	NE	NE	1,000	2,500	20,000

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

All 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 strict chain of custody of Xenco laboratories. Analysis was completed at Xenco Laboratories in Carlsbad, NM. All samples were analyzed for Chlorides via Method EPA 300.0, TPH via Method 8015M, and BTEX via Method 8021B.

TABLE 02 SOIL SAMPLE ANALYTICAL RESULTS



RDX FEDERAL 21 #043

NMOCD REFERENCE NUMBER: NAB1730640185 (2RP-4464)

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	0.5	5/12/2021	<0.00199	-	<49.9	<49.9	<49.9	-	-	35
DS01A	1	5/12/2021	<0.00202	-	<49.8	<49.8	<49.8	-	-	38
DS02	0.5	5/12/2021	<0.00202	-	<49.8	<49.8	<49.8	-	-	472
DS02A	1	5/12/2021	<0.00201	-	<49.9	<49.9	<49.9	-	-	456
DS03	0.5	5/12/2021	<0.00201	-	<49.9	<49.9	<49.9	-	-	369
DS03A	1	5/12/2021	<0.00200	-	<49.9	<49.9	<49.9	-	-	466
DS04	0.5	5/12/2021	<0.00200	-	<50.0	<50.0	<50.0	-	-	27
DS04A	1	5/12/2021	<0.00199	-	<50.0	<50.0	<50.0	-	-	330
DS05	0.5	5/12/2021	<0.00198	-	<49.9	<49.9	<49.9	-	-	103
DS05A	1	5/12/2021	<0.00200	-	<50.0	<50.0	<50.0	-	-	167
DS06	0.5	5/12/2021	<0.00202	-	<49.8	<49.8	<49.8	-	-	292
DS06A	1	5/12/2021	<0.00201	-	<49.9	<49.9	<49.9	-	-	25
NMOCD Table 1 (Closure Cı	riteria	10	50	NE	NE	NE	1,000	2,500	20,000

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 201	8 criteria for soils impacted based on characterization
	* Samples were field screened with Hach® Chloride strips	

All 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 strict chain of custody of Xenco laboratories. Analysis was completed at Xenco Laboratories in Carlsbad, NM. All samples were analyzed for Chlorides via Method EPA 300.0, TPH via Method 8015M, and BTEX via Method 8021B.

Attachment 02: RDX/ RDU Depth to Water Report





Site Investigation Report

Date of report: 1/5/2021

Site Names: RDX 16-25 Ross Draw Unit #38

RDX 17 #3 Ross Draw Unit #55 RDX Fed Com 17-44H Ross Draw Unit #57 RDX Fed Com 21-43 N Brushy Fed 35 #010H

County: Eddy County, New Mexico

Project No: 0397

Site Activities

Earth Systems Response and Restoration (ESRR) field activities were conducted December 8th through the 10th in Eddy county, New Mexico. ESRR oversaw the advancement of one soil boring at the eight above-mentioned locations to an approximate depth of 105 feet (ft.) below grade surface utilizing an air-rotary drilling rig operated by a State of New Mexico licensed driller. Additionally, HRL Compliance Solutions (HRL) conducted on-site soil logging activities during the advancement of the soil borings. Please see the detailed lithologic descriptions attached.

Upon completion of the soil borings, a PVC casing fitted with 5 ft. of machine-slotted well screen at the bottom was inserted into each soil boring. The PVC casing was left in place for a minimum of 72 hours prior to being gauged by HRL Consulting on December 12th with a water level meter to determine the presence or absence of groundwater. Subsequent to gauging activities, each soil boring had the PVC casing removed and was then backfilled with its associated native soil cuttings to grade surface.

Conclusions

Groundwater was not detected in any of the eight soil borings as determined by utilizing a water level meter after 72 hours of development. It can be reasonably determined groundwater is deeper than 105 ft. bgs in the vicinity of the advanced soil borings.

Respectfully,

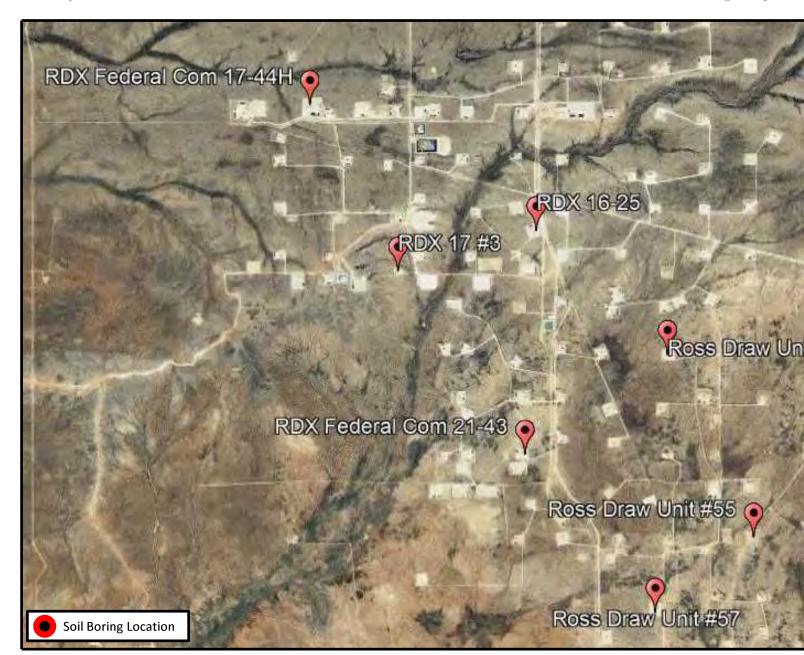
Kris Williams, CHMM, REM

K. Williams

Operations Manager

Attached: Drilling Locations Maps

Soil Boring Logs





	Drilling Loc	cation Site Map
RDX 16-25	(32.039900, -103.883337)	Ross Draw Unit #38
RDX 17 #3	(32.036765, -103.895993)	Ross Draw Unit #55
RDX Federal Com 17-44H	(32.049656, -103.904054)	Ross Draw Unit #57
RDX Federal Com 21-43	(32.022571, -103.884371)	





Drilling Location Site Map

North Brushy Federal 35 #010H RDX Federal Com 17-44H

(32.079909, -103.951386 (32.049656, -103.904054)

\nearrow	<	HR CO SO	L M P L	1 A N	CE		BORI Boring/Wel	ll Number:	MONITORING W	Location: RDX 16 Client:	
									0/2020	WPX En	ergy
1 -	Drilling Method: Sampling Method: None None							: I I ii	nn, PG	Drilled By: Talon L	ÞE
Gravel Pac		<u>, </u>	Gravel Pac	k Depth Inte			Seal Type:	J. L11	Seal Depth Interval:	Latitude:	1 L
	0/20 san				ags			lone	None	32.0399	004
Casing Typ PVC	oe:	Diameter: 2-inch		Depth Inter			Boring Tota	al Depth (ft. BC		Longitude: -103.8833	3368
Screen Typ	oe:	Slot:		Diameter:		Interval:	Well Total	Depth (ft. BGS)			DTW Date:
PVC		0.010-iı	nch	2-inch	105-	110 ft		11	10	> 110	12/16/2020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	nscs	Sample ID	Litholog	y/Remarks	Well Completion
0 5 10 15 20	NM	L	D	N	N	NM	SW	NS		nk tan well graded · vith silt .	-
25 30 35	NM	L	D	N	N	NM	SP	NS		poorly graded fine and	
40	NM	L	D	N	N	NM	SW	NS		d well graded sand gravel	
50 55	NM	L	D	N	N	NM	SP	NS	I	poorly graded fine and	
60 65 70 75 80 85 90 95 100 105	NM	L	D	N	N	NM	SP	NS	sand with minor i	poorly graded fine nedium and coarse D: 110' bgs	

\rightarrow	<	H R C O	L M P L	1 A N	CE			BORING LOG/MONITORING WELL COMPLETION DIAGRAM Boring/Well Number: MW-1 Date: Client:					
	SOLUTIONS							12/8	3/2020	Client: WPX Energy			
	Drilling Method: Sampling Method: Air Rotary None						Logged By:		nn, PG	Drilled By: Talon L	DE		
Gravel Pac		<u>y</u>	Gravel Pac	k Depth Inte			Seal Type:	J. LII	Seal Depth Interval:	Latitude:	TE.		
	0/20 Sar				Bags			lone	None	32.0367	765		
Casing Typ	oe:	Diameter: 2-inch		Depth Inter			Boring Tota	al Depth (ft. BG		Longitude: -103.895	1993		
Screen Typ	oe:	Slot:		Diameter:	Depth	Interval:	Well Total	Depth (ft. BGS)		Depth to Water (ft. BTOC):	DTW Date:		
PVC		0.010-ii	nch	2-inch	102-	107 ft		10)7	> 107	12/16/2020		
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	nscs	Sample ID	Litholog	gy/Remarks	Well Completion		
0 5 10 15 20 25	NM	L	D	N	N	NM	SP	NS	Pale orange poor	rly graded fine sand			
30 35	NM	L	D	N	N	NM	SP	NS		ith slight increase in d and gravel			
40 45 50	NM	L	D	N	N	NM	SP	NS		ly graded fine sand y slight silt			
55	NM	L	D	N	N	NM	SP	NS	Pale orange poor	ly graded fine sand	†		
60	NM	L	D	N	N	NM	SW	NS	Pale orange wel	l graded fine sand	†		
65 70 75 80 85	NM	М	SL M	N	N	NM	SM	NS	Pale red orange c	layey silty fine sand se sand and gravel			
90 95 100 105	NM	L	SL M	N	N	NM	SP	NS		ly sorted fine sand - 07' BGS			

		HR	1						MONITORING W	ELL COMPLETION	DIAGRAM
\nearrow		C O	MPI	1 A N	CF		Boring/Well		W-1	Location: RDX Federal Co	om 17 - 44H
		SO	Ï II i	1017	NS		Date:			Client:	
Drilling Me	ethod:		Sampling 1	Method:			Logged By:	12/8/	/2020	WPX En	ergy
	Air Rotai	y	Sampinig		one		Logged By.	J. Lin	ın, PG	Talon L	PE
Gravel Pac			Gravel Pac	k Depth Inte			Seal Type:		Seal Depth Interval:	Latitude:	
Casing Typ	0/20 Sar	1d Diameter:		Depth Inter	ags			one Depth (ft. BGS	None	32.0496 Longitude:	556
PVC		2-inch		0-105 ft				1.	10	054	
Screen Typ	e:	Slot:		Diameter:		Interval:	Well Total D	epth (ft. BGS):		1	DTW Date:
PVC	Ι	0.010-ii	nch I	2-inch	105 -	110 ft		1.	10 T	> 110	12/16/2020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID	Litholog	y/Remarks	Well Completion
0 5 10 15 20 25 30 35 40	NM	L	D	N	N	NM	CE	NS	Buff to pale pin	- - - - - -	
50 55 60	NM	L	D	N	N	NM	SW	NS	, ,	ll graded sand with or silt	- - -
65 70 75	NM	L	D	N	N	NM	SP	NS		orange poorly graded ith minor silt	
80 85 90	NM	L	D	N	N	NM	SW-SM SW-SC	NS		ge well-graded sand tand clay	
95 100 105	NM	L	D	N	N	NM	SP	NS		orange poorly graded or silt - TD: 110' bgs	

		HR							MONITORING W	ELL COMPLETION	N DIAGRAN
\nearrow		CO	MPL	1AN	CE		Boring/We		IW-1	Location: RDX Federal C	Com 21-43
		SO	LU.	TIOI	NS		Date:			Client:	
Drilling Me	ethod:		Sampling	Method:			Logged By		9/2020	WPX End Drilled By:	ergy
	Air Rotai	у	,		one		2088442)		nn, P.G.	Talon LPE	
Gravel Pacl			Gravel Pac	ck Depth Inte			Seal Type:		Seal Depth Interval:	Latitude:	
	0/20 Sar				ags			Jone	None	32.0225	571
Casing Typ PVC	e:	Diameter: 2-inch		Depth Inter			Boring 1 of	al Depth (ft. Bo	38): 10	Longitude: -103.884	371
Screen Type	e:	Slot:		Diameter:		Interval:	Well Total	Depth (ft. BGS			DTW Date:
PVC		0.010-iı	nch	2-inch	100 -	- 105 ft 105		05	> 105	12/16/202	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	nscs	Sample ID	Litholog	y/Remarks	Well Completio
0 5 10 15	NM	L	D	N	N	NM	SP	NS	_	poorly graded fine and	-
20	NM	Н	D	N	N	NM	CL	NS		le red clay, dry, with nd minor caliche	
25 30 35 40 45	NM	L	D	N	N	NM	SP	NS		e red poorly graded sand	- - -
50 55 60	NM	L	D	N	N	NM	SP	NS		orly graded fine sand silt and clay	
65 70 75	NM	L	D	N	N	NM	SP	NS	· ·	e red poorly graded in minor silt/clay	
80 85 90	NM	М	D	N	N	NM	SC	NS	1	olor fine sand with and and clay	
95	NM	Н	D	N	N	NM	CL	NS	Brown orange clay w	ith silt and fine sand	†
100	NM	Н	D	N	N	NM	SC	NS	Golden yellow and I fine sand - TD Boring	ouff colored clay with g: 110' BGS; Sand 110'	-

\nearrow	<	HR CO SO	L M P L L U 1	1 A N	C E N S		BORI Boring/Wel	ll Number: M	W-1 3/2020	Location: Ross Draw U Client: WPX En	Jnit #38
Drilling Me	ethod: Air Rotai	<u></u>	Sampling 1		one		Logged By:		nn, PG	Drilled By: Talon L	
	0/20 Sar		Gravel Pac	ck Depth Into 3 B	ags			lone	Seal Depth Interval: None	Latitude: 32.0303	00
	VC	Diameter: 2-inch		Depth Inter	eet bgs				05	Longitude: -103.871	
Screen Typ	ve: VC	Slot: 0.010-i1	nch	Diameter: 2-inch		Interval: 105 ft	Well Total	Depth (ft. BGS 1(): 05	Depth to Water (ft. BTOC): > 105	DTW Date: 12/16/2020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	nscs	Sample ID	Litholog	y/Remarks	Well Completion
0 5 10 15	NM	L	D	N	N	NM	SW	NS	fine sand with n	oink to buff colored ninor medium and se sand	
20 25 30	NM	L	D	N	N	NM	SP	NS		pink poorly graded sand	
35 40 45 50 55 60 65	NM	L	D	N	N	NM	SP	NS		pale orange poorly fine sand	
70 75 80 85 90 95	NM	L	D	N	N	NM	SP	NS		poorly graded fine and	
100	NM	L	D	N	N	NM	SP	NS	Tan/pale brown/pal graded fine sand - 1		

		HR							MONITORING W	ELL COMPLETION	N DIAGRAM		
\nearrow		C O	MPI	1 A N	C F		Boring/Wel		W-1	Location: Ross Draw U	nit #55		
		SO	LUI	0 1 1	NS		Date:			Client:			
Drilling Me	ethod:		Sampling 1	Method:			Logged By:		2/2020	WPX End	ergy		
A	ir Rotar	y	, -	No	one				nn, PG	Talon L	LPE		
Gravel Pack	k Type: 0/20 Sar	nd	Gravel Pac	k Depth Into	erval: Bags		Seal Type:	Ione	Seal Depth Interval: None	Latitude:	65		
Casing Typ		Diameter:		Depth Inter	val:			al Depth (ft. BC		32.016165 Longitude:			
PVC Screen Typ		2-inch		0-101'7 Diameter:		1	106'7"			-103.863			
PVC	e:	0.010-ii	nch		101'7"	Interval: - 106'7"	* '			Depth to Water (ft. BTOC): >106' 7"	12/16/2020		
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	nscs	Sample ID		y/Remarks	Well Completion		
0 5 10	NM	L	D	N	N	NM	SP	NS	_	olored poorly graded minor silt	-		
20 25 30	NM	L	D	N	N	NM	SW	NS		ell graded fine sand -	-		
35 40 45 50 55 60	NM	L	D	N	N	NM	SP	NS	_	n poorly graded fine ninor gravel			
65 70 75 80 85	NM	L	D	N	N	NM	SP	NS		led fine sand with gravel -			
90 95	NM	L	D	N	N	NM	SP	NS		y graded fine sand minor medium sand			
100 106'7"	NM	М	D	N	N	NM	SC	NS		d with moderate silt TD 106'7"			

		HR	1				BORI	NG LOG/	MONITORING W	ELL COMPLETION	N DIAGRAM		
		CO	MPL	1 A N	CE		Boring/Wel		W-1	Location: Ross Draw U	Jnit #57		
		SO	LUI	1017	NS		Date:			Client:			
Drilling Me	ethod:		Sampling N	Method:			Logged By:		9/2020	WPX End Drilled By:	ergy		
	Air Rotar	у		No	one				nn, PG	Talon L	PE		
Gravel Paci	k Type: 0/20 Sar	nd	Gravel Pac	k Depth Into	erval: Bags		Seal Type:	Ione	Seal Depth Interval: None	Latitude: 32.010.	32		
Casing Typ		Diameter:		Depth Inter	val:			al Depth (ft. BC		Longitude:			
PVC Screen Typ		2-inch		0-105 fe		Interval:	rval: Well Total Depth (ft. BGS):			-103.872 Depth to Water (ft. BTOC):			
PVC	JC.	0.010-ii	nch	2-inch		110 ft	- '			> 110	12/16/2020		
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID	Litholog	y/Remarks	Well Completion		
0 5 10 15 20 25 30 35	NM	L/M	D	N	N	NM	SM	NS	Tan/pale orange/ graded	-			
40	NM	М	D	N	N	NM	SW	NS		orange well graded th gravel	-		
50 55	NM	М	D	N	N	NM	SM	NS	Pale orange red	tan silty fine sand -			
60	NM	L	D	N	N	NM	SW	NS	Dark brown greyis	sh well graded sand -			
70 75 80 85 90 95	- NM	L/M	D to SL M	N	N	NM	SW	NS	Grey well	graded sand - -	-		
100	NM	L/M	D	N	N	NM	SM	NS		pale brown poorly ad - TD 110' bgs	-		

		HR	L						MONITORING W	ELL COMPLETION	N DIAGRAM	
*		CO	MPL	1 A N	C F		Boring/Wel		W-1	Location: North Brushy Fede	ral 35 # 010H	
		S n	1 11 1	101	NS		Date:			Client:		
Drilling Me	athod:	0 0	Sampling N	(athod:			Logged By:		3/2020	WPX End	ergy	
1	emoa: Air Rotar	v	Sampling N		one		Logged By		nn, PG	Talon L	PE	
Gravel Pacl	k Type:	<u>, </u>	Gravel Pac	k Depth Inte	erval:		Seal Type:		Seal Depth Interval:	Latitude:		
Casing Typ	0/20 San	nd Diameter:		3 B	ags			Ione al Depth (ft. BC	None	32.079909 Longitude:		
PVC		2-inch		0-100 fe				10	05	-103.951	386	
Screen Typ	e:	Slot:	1	Diameter:		Interval:	Well Total	Depth (ft. BGS			DTW Date:	
PVC	l	0.010-ii	nch I	2-inch	100 -	105 ft		l)5 I	> 105	12/16/2020	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	nscs	Sample ID	Litholog	y/Remarks	Well Completion	
0 5 10 15	NM	L	D	N	N	NM	CE	NS	Buff to pale	pink caliche -	-	
20 25 30 35 40 45 50	NM	L	D	N	N	NM	SM	NS	Tan to pale	red silty sand - - -	-	
55 60	NM	М	М	N	N	NM	ML	NS		ndy silt with minor m sand		
65	NM	Н	M	N	N	NM	CL	NS	Tan clay with	n minor gravel		
70 75 80	NM	L	D	N	N	NM	SP	NS		aded fine sand with or silt		
85	NM	Н	D/SLM	N	N	NM	CL	NS		n clay with minor minor angular gravel		
90 95 100	NM	M/H	M	N	N	NM	CL	NS	with minor mediu	ge sandy lean clay m sand and angular Boring: 105'		

Attachment 02



Picture 1-North face	Picture 2-South east face
15-Jan-20	15-Jan-20





Picture 3- East face Picture 4- East face, west of pumpjack 12-May-21 12-May-21





Attachment 03



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-664-1

Client Project/Site: RDX Federal 21-43

For:

WPX Energy Production LLC 5315 Buena Vista Dr Carlsbad, New Mexico 88220

Attn: Lynda Laumbach

KRAMER

Authorized for release by: 5/18/2021 3:01:47 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

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Released to Imaging: 9/14/2022 10:36:29 AM

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.

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Client: WPX Energy Production LLC
Project/Site: RDX Federal 21-43

Laboratory Job ID: 890-664-1

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Definitions/Glossary

Client: WPX Energy Production LLC Job ID: 890-664-1

GC VOA Qualifier

Qualifier Description Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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 Colony Forming Unit CFU **CNF** Contains No Free Liquid

DER 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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

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) TFF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: WPX Energy Production LLC Project/Site: RDX Federal 21-43

Job ID: 890-664-1

Job ID: 890-664-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-664-1

Comments

No additional comments.

Receipt

The samples were received on 5/13/2021 8:56 AM. 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 was 1.2° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-3119 and analytical batch 880-3103 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: DS01A (890-664-2), DS05 (890-664-9) and DS06A (890-664-12). The sample(s) shows evidence of matrix interference.

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

GC Semi VOA

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

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 880-3152 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: DS01 (890-664-1), DS01A (890-664-2) and DS02 (890-664-3).

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

Organic Prep

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

VOA Prep

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

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Job ID: 890-664-1

Client: WPX Energy Production LLC Project/Site: RDX Federal 21-43

Client Sample ID: DS01

Date Received: 05/13/21 08:56

Date Collected: 05/12/21 12:00

Lab Sample ID: 890-664-1

Matrix: Solid

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/14/21 13:30	05/15/21 03:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/21 13:30	05/15/21 03:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/21 13:30	05/15/21 03:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/21 13:30	05/15/21 03:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/21 13:30	05/15/21 03:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/21 13:30	05/15/21 03:43	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/14/21 13:30	05/15/21 03:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				05/14/21 13:30	05/15/21 03:43	1
1,4-Difluorobenzene (Surr)	99		70 - 130				05/14/21 13:30	05/15/21 03:43	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/14/21 13:14	05/15/21 18:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/14/21 13:14	05/15/21 18:13	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/14/21 13:14	05/15/21 18:13	1
Total TPH	<49.9	U	49.9		mg/Kg		05/14/21 13:14	05/15/21 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				05/14/21 13:14	05/15/21 18:13	1
o-Terphenyl	102		70 - 130				05/14/21 13:14	05/15/21 18:13	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.4	4.99	mg/Kg			05/17/21 10:46	1

Client Sample ID: DS01A Lab Sample ID: 890-664-2 Date Collected: 05/12/21 12:05 **Matrix: Solid**

Date Received: 05/13/21 08:56

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/14/21 13:30	05/15/21 04:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/14/21 13:30	05/15/21 04:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/14/21 13:30	05/15/21 04:04	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/14/21 13:30	05/15/21 04:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/14/21 13:30	05/15/21 04:04	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/14/21 13:30	05/15/21 04:04	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		05/14/21 13:30	05/15/21 04:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				05/14/21 13:30	05/15/21 04:04	1
1,4-Difluorobenzene (Surr)	98		70 - 130				05/14/21 13:30	05/15/21 04:04	1

Matrix: Solid

Lab Sample ID: 890-664-2

Client Sample Results

Client: WPX Energy Production LLC Job ID: 890-664-1

Project/Site: RDX Federal 21-43

Client Sample ID: DS01A

Date Collected: 05/12/21 12:05 Date Received: 05/13/21 08:56

Sample Depth: - 1

Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		05/14/21 13:14	05/15/21 19:16	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		05/14/21 13:14	05/15/21 19:16	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/14/21 13:14	05/15/21 19:16	1
Total TPH	<49.8	U	49.8		mg/Kg		05/14/21 13:14	05/15/21 19:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				05/14/21 13:14	05/15/21 19:16	1
o-Terphenyl	100		70 - 130				05/14/21 13:14	05/15/21 19:16	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.9		5.04		mg/Kg			05/17/21 10:51	1

Client Sample ID: DS02 Lab Sample ID: 890-664-3 Matrix: Solid

Date Collected: 05/12/21 12:10 Date Received: 05/13/21 08:56

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/14/21 13:30	05/15/21 04:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/14/21 13:30	05/15/21 04:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/14/21 13:30	05/15/21 04:24	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/14/21 13:30	05/15/21 04:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/14/21 13:30	05/15/21 04:24	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/14/21 13:30	05/15/21 04:24	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		05/14/21 13:30	05/15/21 04:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/14/21 13:30	05/15/21 04:24	1
1,4-Difluorobenzene (Surr)	102		70 - 130				05/14/21 13:30	05/15/21 04:24	1
Method: 8015B NM - Diesel Rang Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rand	ne Organics (D	RO) (GC)							
Analyte Gasoline Range Organics		Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared 05/14/21 13:14	Analyzed 05/15/21 19:37	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8	Qualifier U	49.8	MDL	mg/Kg	<u>D</u>	05/14/21 13:14	05/15/21 19:37	1
Analyte Gasoline Range Organics	Result	Qualifier U		MDL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8	Qualifier U	49.8	MDL	mg/Kg	<u>D</u>	05/14/21 13:14	05/15/21 19:37	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 <49.8	Qualifier U U	49.8	MDL	mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14	05/15/21 19:37 05/15/21 19:37	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 <49.8 <49.8	Qualifier U U U U	49.8 49.8 49.8	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14	05/15/21 19:37 05/15/21 19:37 05/15/21 19:37	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49	Qualifier U U U U	49.8 49.8 49.8 49.8	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 05/14/21 13:14	05/15/21 19:37 05/15/21 19:37 05/15/21 19:37 05/15/21 19:37	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49	Qualifier U U U U	49.8 49.8 49.8 49.8 Limits	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 Prepared	05/15/21 19:37 05/15/21 19:37 05/15/21 19:37 05/15/21 19:37 Analyzed	1 1 1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.8 49.8 49.8 49.8 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 Prepared 05/14/21 13:14	05/15/21 19:37 05/15/21 19:37 05/15/21 19:37 05/15/21 19:37 Analyzed 05/15/21 19:37	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.8 49.8 49.8 49.8 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 Prepared 05/14/21 13:14	05/15/21 19:37 05/15/21 19:37 05/15/21 19:37 05/15/21 19:37 Analyzed 05/15/21 19:37	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Matrix: Solid

Lab Sample ID: 890-664-4

Job ID: 890-664-1

Client: WPX Energy Production LLC Project/Site: RDX Federal 21-43

Client Sample ID: DS02A

Date Collected: 05/12/21 12:15 Date Received: 05/13/21 08:56

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/14/21 13:30	05/15/21 06:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/14/21 13:30	05/15/21 06:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/14/21 13:30	05/15/21 06:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/14/21 13:30	05/15/21 06:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/14/21 13:30	05/15/21 06:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/14/21 13:30	05/15/21 06:14	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		05/14/21 13:30	05/15/21 06:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/14/21 13:30	05/15/21 06:14	1
1,4-Difluorobenzene (Surr)	100		70 - 130				05/14/21 13:30	05/15/21 06:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/14/21 13:14	05/15/21 19:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/14/21 13:14	05/15/21 19:59	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/14/21 13:14	05/15/21 19:59	1
Total TPH	<49.9	U	49.9		mg/Kg		05/14/21 13:14	05/15/21 19:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				05/14/21 13:14	05/15/21 19:59	1
o-Terphenvl	102		70 - 130				05/14/21 13:14	05/15/21 19:59	1

	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	456		4.97		mg/Kg			05/17/21 11:11	1

Client Sample ID: DS03 Lab Sample ID: 890-664-5 Date Collected: 05/12/21 12:20

Date Received: 05/13/21 08:56

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/14/21 13:30	05/15/21 06:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/14/21 13:30	05/15/21 06:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/14/21 13:30	05/15/21 06:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/14/21 13:30	05/15/21 06:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/14/21 13:30	05/15/21 06:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/14/21 13:30	05/15/21 06:34	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		05/14/21 13:30	05/15/21 06:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/14/21 13:30	05/15/21 06:34	1
1,4-Difluorobenzene (Surr)	101		70 ₋ 130				05/14/21 13:30	05/15/21 06:34	1

Eurofins Xenco, Carlsbad

Matrix: Solid

Client Sample Results

Client: WPX Energy Production LLC Job ID: 890-664-1

Project/Site: RDX Federal 21-43

Client Sample ID: DS03 Lab Sample ID: 890-664-5 Date Collected: 05/12/21 12:20

Matrix: Solid

05/17/21 11:16

Date Received: 05/13/21 08:56 Sample Depth: - 0.5

nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sasoline Range Organics	<49.9	U	49.9		mg/Kg		05/14/21 13:14	05/15/21 20:20	1
GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		05/14/21 13:14	05/15/21 20:20	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/14/21 13:14	05/15/21 20:20	1
Total TPH	<49.9	U	49.9		mg/Kg		05/14/21 13:14	05/15/21 20:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
-Chlorooctane	96		70 - 130				05/14/21 13:14	05/15/21 20:20	1
-Terphenyl	99		70 - 130				05/14/21 13:14	05/15/21 20:20	1

Client Sample ID: DS03A Lab Sample ID: 890-664-6

24.9

mg/Kg

369

Date Collected: 05/12/21 12:25 **Matrix: Solid**

Date Received: 05/13/21 08:56

Sample Depth: - 1

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/21 13:30	05/15/21 06:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/21 13:30	05/15/21 06:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/21 13:30	05/15/21 06:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/14/21 13:30	05/15/21 06:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/21 13:30	05/15/21 06:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/14/21 13:30	05/15/21 06:55	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		05/14/21 13:30	05/15/21 06:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				05/14/21 13:30	05/15/21 06:55	1
1,4-Difluorobenzene (Surr)	100		70 - 130				05/14/21 13:30	05/15/21 06:55	1
Method: 8015B NM - Diesel Ranç	• • •	, , ,				_			
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	
Analyte Gasoline Range Organics	• • •	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 05/14/21 13:14	Analyzed 05/15/21 20:41	
Analyte	Result	Qualifier U		MDL		<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	05/14/21 13:14	05/15/21 20:41	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	05/14/21 13:14	05/15/21 20:41	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U U U	49.9	MDL	mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14	05/15/21 20:41 05/15/21 20:41	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14	05/15/21 20:41 05/15/21 20:41 05/15/21 20:41	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result <49.9 <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 05/14/21 13:14	05/15/21 20:41 05/15/21 20:41 05/15/21 20:41 05/15/21 20:41	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49	Qualifier U U U U	49.9 49.9 49.9 49.9 Limits	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 Prepared	05/15/21 20:41 05/15/21 20:41 05/15/21 20:41 05/15/21 20:41 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 Prepared 05/14/21 13:14	05/15/21 20:41 05/15/21 20:41 05/15/21 20:41 05/15/21 20:41 Analyzed 05/15/21 20:41	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 Prepared 05/14/21 13:14	05/15/21 20:41 05/15/21 20:41 05/15/21 20:41 05/15/21 20:41 Analyzed 05/15/21 20:41	Dil Fac

Client Sample Results

Client: WPX Energy Production LLC Job ID: 890-664-1

Project/Site: RDX Federal 21-43

Client Sample ID: DS04 Lab Sample ID: 890-664-7 Date Collected: 05/12/21 12:30 Matrix: Solid

Date Received: 05/13/21 08:56 Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/21 13:30	05/15/21 07:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/21 13:30	05/15/21 07:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/21 13:30	05/15/21 07:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/14/21 13:30	05/15/21 07:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/21 13:30	05/15/21 07:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/14/21 13:30	05/15/21 07:15	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/14/21 13:30	05/15/21 07:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				05/14/21 13:30	05/15/21 07:15	1
1,4-Difluorobenzene (Surr)	100		70 - 130				05/14/21 13:30	05/15/21 07:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/14/21 13:14	05/15/21 21:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/21 13:14	05/15/21 21:02	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/21 13:14	05/15/21 21:02	1
Total TPH	<50.0	U	50.0		mg/Kg		05/14/21 13:14	05/15/21 21:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/14/21 13:14	05/15/21 21:02	1
o-Terphenyl	103		70 - 130				05/14/21 13:14	05/15/21 21:02	1

Method: 300.0 - Anions, Ion Chro	omatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.4	4.95	mg/Kg			05/17/21 11:26	1

Client Sample ID: DS04A Lab Sample ID: 890-664-8 Date Collected: 05/12/21 12:35 **Matrix: Solid**

Date Received: 05/13/21 08:56

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/14/21 13:30	05/15/21 07:35	
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/21 13:30	05/15/21 07:35	•
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/21 13:30	05/15/21 07:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/21 13:30	05/15/21 07:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/21 13:30	05/15/21 07:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/21 13:30	05/15/21 07:35	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/14/21 13:30	05/15/21 07:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				05/14/21 13:30	05/15/21 07:35	1
1,4-Difluorobenzene (Surr)	99		70 - 130				05/14/21 13:30	05/15/21 07:35	1

Matrix: Solid

Lab Sample ID: 890-664-8

Client Sample Results

Client: WPX Energy Production LLC Job ID: 890-664-1

Project/Site: RDX Federal 21-43

Client Sample ID: DS04A

Date Collected: 05/12/21 12:35 Date Received: 05/13/21 08:56

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/14/21 13:14	05/15/21 21:23	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		05/14/21 13:14	05/15/21 21:23	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/21 13:14	05/15/21 21:23	1
Total TPH	<50.0	U	50.0		mg/Kg		05/14/21 13:14	05/15/21 21:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				05/14/21 13:14	05/15/21 21:23	1
o-Terphenyl	101		70 - 130				05/14/21 13:14	05/15/21 21:23	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	330		24.8		mg/Kg			05/17/21 11:31	5

Client Sample ID: DS05 Lab Sample ID: 890-664-9 Matrix: Solid

Date Collected: 05/12/21 12:40 Date Received: 05/13/21 08:56

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/14/21 13:30	05/15/21 07:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/21 13:30	05/15/21 07:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/21 13:30	05/15/21 07:56	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/14/21 13:30	05/15/21 07:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/21 13:30	05/15/21 07:56	1
Xylenes, Total	< 0.00396	U	0.00396		mg/Kg		05/14/21 13:30	05/15/21 07:56	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		05/14/21 13:30	05/15/21 07:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				05/14/21 13:30	05/15/21 07:56	1
1,4-Difluorobenzene (Surr)	96		70 - 130				05/14/21 13:30	05/15/21 07:56	1
Analyte		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 05/14/21 13:14	Analyzed 05/15/21 21:44	
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U		MDL		<u>D</u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14	05/15/21 21:44 05/15/21 21:44	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U U	49.9	MDL	mg/Kg	<u>D</u>	05/14/21 13:14	05/15/21 21:44	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49	Qualifier U U U U	49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 05/14/21 13:14	05/15/21 21:44 05/15/21 21:44 05/15/21 21:44 05/15/21 21:44	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9	Qualifier U U	49.9 49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14	05/15/21 21:44 05/15/21 21:44 05/15/21 21:44	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U U U U	49.9 49.9 49.9 49.9 Limits	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 Prepared	05/15/21 21:44 05/15/21 21:44 05/15/21 21:44 05/15/21 21:44 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 Prepared 05/14/21 13:14	05/15/21 21:44 05/15/21 21:44 05/15/21 21:44 05/15/21 21:44 Analyzed 05/15/21 21:44	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130		mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 Prepared 05/14/21 13:14	05/15/21 21:44 05/15/21 21:44 05/15/21 21:44 05/15/21 21:44 Analyzed 05/15/21 21:44	Dil Fac 1 1 1 Dil Fac 1 Dil Fac

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5/18/2021

Client Sample Results

Client: WPX Energy Production LLC Job ID: 890-664-1

Project/Site: RDX Federal 21-43

Client Sample ID: DS05A Lab Sample ID: 890-664-10

Matrix: Solid

Date Collected: 05/12/21 12:45 Date Received: 05/13/21 08:56

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/21 11:07	05/15/21 08:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/21 11:07	05/15/21 08:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/21 11:07	05/15/21 08:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/14/21 11:07	05/15/21 08:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/21 11:07	05/15/21 08:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/14/21 11:07	05/15/21 08:16	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		05/14/21 11:07	05/15/21 08:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/14/21 11:07	05/15/21 08:16	1
1,4-Difluorobenzene (Surr)	102		70 - 130				05/14/21 11:07	05/15/21 08:16	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/14/21 13:14	05/15/21 22:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/21 13:14	05/15/21 22:05	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/21 13:14	05/15/21 22:05	1
Total TPH	<50.0	U	50.0		mg/Kg		05/14/21 13:14	05/15/21 22:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				05/14/21 13:14	05/15/21 22:05	1
o-Terphenyl	105		70 - 130				05/14/21 13:14	05/15/21 22:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	167		5.05		mg/Kg			05/17/21 13:34	1

Client Sample ID: DS06 Lab Sample ID: 890-664-11 Date Collected: 05/12/21 12:50 **Matrix: Solid**

Date Received: 05/13/21 08:56

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/14/21 13:30	05/15/21 08:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/14/21 13:30	05/15/21 08:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/14/21 13:30	05/15/21 08:37	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/14/21 13:30	05/15/21 08:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/14/21 13:30	05/15/21 08:37	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/14/21 13:30	05/15/21 08:37	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		05/14/21 13:30	05/15/21 08:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/14/21 13:30	05/15/21 08:37	1
1,4-Difluorobenzene (Surr)	100		70 - 130				05/14/21 13:30	05/15/21 08:37	1

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Client: WPX Energy Production LLC Job ID: 890-664-1

Project/Site: RDX Federal 21-43

Date Received: 05/13/21 08:56

Lab Sample ID: 890-664-11 **Client Sample ID: DS06** Date Collected: 05/12/21 12:50

Matrix: Solid

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		05/14/21 13:14	05/15/21 22:47	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		05/14/21 13:14	05/15/21 22:47	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/14/21 13:14	05/15/21 22:47	1
Total TPH	<49.8	U	49.8		mg/Kg		05/14/21 13:14	05/15/21 22:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				05/14/21 13:14	05/15/21 22:47	1
o-Terphenyl	100		70 - 130				05/14/21 13:14	05/15/21 22:47	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	292		5.04		mg/Kg			05/17/21 13:39	

Client Sample ID: DS06A Lab Sample ID: 890-664-12

Date Collected: 05/12/21 12:55 Matrix: Solid

Date Received: 05/13/21 08:56

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/14/21 13:30	05/15/21 08:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/14/21 13:30	05/15/21 08:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/14/21 13:30	05/15/21 08:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/14/21 13:30	05/15/21 08:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/14/21 13:30	05/15/21 08:57	•
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/14/21 13:30	05/15/21 08:57	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		05/14/21 13:30	05/15/21 08:57	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				05/14/21 13:30	05/15/21 08:57	
1,4-Difluorobenzene (Surr)	95		70 - 130				05/14/21 13:30	05/15/21 08:57	
Method: 8015B NM - Diesel Ranç Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared 05(44)04.44	Analyzed	Dil Fa
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte Gasoline Range Organics	, ,	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 05/14/21 13:14	Analyzed 05/15/21 23:08	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	05/14/21 13:14	05/15/21 23:08	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U		MDL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	05/14/21 13:14	05/15/21 23:08	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U U	49.9	MDL	mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14	05/15/21 23:08 05/15/21 23:08	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14	05/15/21 23:08 05/15/21 23:08 05/15/21 23:08	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 05/14/21 13:14	05/15/21 23:08 05/15/21 23:08 05/15/21 23:08 05/15/21 23:08	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49	Qualifier U U U U	49.9 49.9 49.9 49.9 Limits	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 Prepared	05/15/21 23:08 05/15/21 23:08 05/15/21 23:08 05/15/21 23:08 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier Soluble	49.9 49.9 49.9 49.9 Limits 70 - 130 70 - 130		mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 Prepared 05/14/21 13:14	05/15/21 23:08 05/15/21 23:08 05/15/21 23:08 05/15/21 23:08 Analyzed 05/15/21 23:08	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130		mg/Kg mg/Kg mg/Kg	<u>D</u>	05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 05/14/21 13:14 Prepared 05/14/21 13:14	05/15/21 23:08 05/15/21 23:08 05/15/21 23:08 05/15/21 23:08 Analyzed 05/15/21 23:08	Dil Face Dil Face Dil Face Dil Face

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Surrogate Summary

Client: WPX Energy Production LLC Job ID: 890-664-1

Project/Site: RDX Federal 21-43

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-664-1	DS01	113	99	
390-664-2	DS01A	121	98	
390-664-3	DS02	117	102	
390-664-4	DS02A	111	100	
390-664-5	DS03	114	101	
390-664-6	DS03A	114	100	
390-664-7	DS04	114	100	
390-664-8	DS04A	118	99	
390-664-9	DS05	122	96	
390-664-10	DS05A	117	102	
390-664-11	DS06	113	100	
390-664-12	DS06A	126	95	
_CS 880-3119/1-A	Lab Control Sample	104	100	
_CSD 880-3119/2-A	Lab Control Sample Dup	105	98	
MB 880-3104/5-A	Method Blank	106	94	
	Method Blank	108	94	

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)	
890-664-1	DS01	98	102	
890-664-1 MS	DS01	102	98	
890-664-1 MSD	DS01	104	91	
890-664-2	DS01A	97	100	
890-664-3	DS02	96	101	
890-664-4	DS02A	103	102	
890-664-5	DS03	96	99	
890-664-6	DS03A	97	101	
890-664-7	DS04	102	103	
890-664-8	DS04A	99	101	
890-664-9	DS05	95	100	
890-664-10	DS05A	103	105	
890-664-11	DS06	96	100	
890-664-12	DS06A	105	102	
LCS 880-3125/2-A	Lab Control Sample	104	98	
LCSD 880-3125/3-A	Lab Control Sample Dup	106	98	
MB 880-3125/1-A	Method Blank	98	103	
Surrogate Legend				
1CO = 1-Chlorooctane				

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OTPH = o-Terphenyl

Client: WPX Energy Production LLC Job ID: 890-664-1

Project/Site: RDX Federal 21-43

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3104/5-A **Matrix: Solid**

Analysis Batch: 3103

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3104

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/21 10:11	05/14/21 13:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/21 10:11	05/14/21 13:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/21 10:11	05/14/21 13:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/14/21 10:11	05/14/21 13:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/21 10:11	05/14/21 13:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/14/21 10:11	05/14/21 13:16	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/14/21 10:11	05/14/21 13:16	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	05/14/21 10:11	05/14/21 13:16	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/14/21 10:11	05/14/21 13:16	1

Lab Sample ID: MB 880-3119/5-A

Matrix: Solid

Analysis Batch: 3103

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3119

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/21 11:07	05/15/21 00:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/21 11:07	05/15/21 00:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/21 11:07	05/15/21 00:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/14/21 11:07	05/15/21 00:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/21 11:07	05/15/21 00:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/14/21 11:07	05/15/21 00:52	1
Total BTEX	< 0.00400	U	0.00400		ma/Ka		05/14/21 11:07	05/15/21 00:52	1

MB	MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	05/14/21 11:07	05/15/21 00:52	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/14/21 11:07	05/15/21 00:52	1

Lab Sample ID: LCS 880-3119/1-A

Matrix: Solid

Analysis Batch: 3103

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3119

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08144		mg/Kg		81	70 - 130	
Toluene	0.100	0.09298		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.09950		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	0.200	0.2012		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1027		mg/Kg		103	70 - 130	

LCS	LCS

Surrogate	%Recovery (Qualifier	Limits		
4-Bromofluorobenzene (Surr)	104		70 - 130		
1,4-Difluorobenzene (Surr)	100		70 - 130		

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Client: WPX Energy Production LLC Job ID: 890-664-1

Project/Site: RDX Federal 21-43

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

Lab Sample ID: LCSD 880-3119/2-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid Analysis Batch: 3103

Analysis Batch: 3103						Prep Batch: 3°				
	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08105		mg/Kg		81	70 - 130	0	35	
Toluene	0.100	0.09352		mg/Kg		94	70 - 130	1	35	
Ethylbenzene	0.100	0.09917		mg/Kg		99	70 - 130	0	35	
m-Xylene & p-Xylene	0.200	0.1997		mg/Kg		100	70 - 130	1	35	
o-Xylene	0.100	0.1024		mg/Kg		102	70 - 130	0	35	

		LCSD	LCSD	
	Surrogate	%Recovery	Qualifier	Limits
	4-Bromofluorobenzene (Surr)	105		70 - 130
L	1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-3125/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 3146** Prep Batch: 3125

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/14/21 13:14	05/15/21 17:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/21 13:14	05/15/21 17:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/21 13:14	05/15/21 17:31	1
Total TPH	<50.0	U	50.0		mg/Kg		05/14/21 13:14	05/15/21 17:31	1

	IVIB IVIB	•			
Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98	70 - 130	05/14/21 13:14	05/15/21 17:31	1
o-Terphenyl	103	70 - 130	05/14/21 13:14	05/15/21 17:31	1

Lab Sample ID: LCS 880-3125/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 3146** Prep Batch: 3125

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	924.7		mg/Kg		92	70 - 130		_
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1036		mg/Kg		104	70 - 130		
C10-C28)									

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-3125/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 3146 Prep Batch: 3125 LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics 1000 950.6 mg/Kg 95 70 - 130 199

(GRO)-C6-C10

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Lab Sample ID: LCSD 880-3125/3-A

Client: WPX Energy Production LLC Job ID: 890-664-1

Project/Site: RDX Federal 21-43

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 3125

Analysis Batch: 3146 Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D 1000 1051 105 20 Diesel Range Organics (Over mg/Kg 70 - 130197

C10-C28)

Matrix: Solid

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: 890-664-1 MS Client Sample ID: DS01

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 3146 Prep Batch: 3125

MS MS %Rec. Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U 996 996.0 100 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 996 1180 mg/Kg 118 70 - 130 C10-C28)

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	98		70 - 130

Client Sample ID: DS01 Lab Sample ID: 890-664-1 MSD **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 3146

Prep Batch: 3125 MSD MSD Sample Sample Snike

	Sample	Sample	Spike	MISD	MISD				/onec.		KFD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U	996	1021		mg/Kg		102	70 - 130	2	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U	996	1166		mg/Kg		117	70 - 130	1	20	
C10-C28)												

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	91		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3096/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3152

MB MB Result Qualifier RLMDL Unit

Analyte D Dil Fac Prepared Analyzed 5.00 Chloride <5.00 U 05/17/21 10:11 mg/Kg

Lab Sample ID: LCS 880-3096/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3152

LCS LCS %Rec. Spike Analyte Added Result Qualifier Limits Unit %Rec Chloride 250 242.6 mg/Kg 97 90 - 110

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Released to Imaging: 9/14/2022 10:36:29 AM

QC Sample Results

Client: WPX Energy Production LLC Job ID: 890-664-1

Project/Site: RDX Federal 21-43

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-3096/3-A

Matrix: Solid

Analysis Batch: 3152

Spike LCSD LCSD %Rec. RPD Added Result Qualifier RPD Limit Analyte Unit %Rec Limits Chloride 250 243.1 mg/Kg 97 90 - 110

Lab Sample ID: 890-664-9 MS

Matrix: Solid

Analysis Batch: 3152

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	103		248	368.4	-	mg/Kg		107	90 - 110	

Lab Sample ID: 890-664-9 MSD

Matrix: Solid

Analysis Batch: 3152

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	103		248	373.4		mg/Kg		109	90 - 110	1	20

Prep Type: Soluble

Client Sample ID: DS05

Client Sample ID: DS05 Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Lab Control Sample Dup

QC Association Summary

Client: WPX Energy Production LLC
Project/Site: RDX Federal 21-43

Job ID: 890-664-1

GC VOA

Analysis Batch: 3103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-664-1	DS01	Total/NA	Solid	8021B	3119
890-664-2	DS01A	Total/NA	Solid	8021B	3119
890-664-3	DS02	Total/NA	Solid	8021B	3119
890-664-4	DS02A	Total/NA	Solid	8021B	3119
890-664-5	DS03	Total/NA	Solid	8021B	3119
890-664-6	DS03A	Total/NA	Solid	8021B	3119
890-664-7	DS04	Total/NA	Solid	8021B	3119
890-664-8	DS04A	Total/NA	Solid	8021B	3119
890-664-9	DS05	Total/NA	Solid	8021B	3119
890-664-10	DS05A	Total/NA	Solid	8021B	3119
890-664-11	DS06	Total/NA	Solid	8021B	3119
890-664-12	DS06A	Total/NA	Solid	8021B	3119
MB 880-3104/5-A	Method Blank	Total/NA	Solid	8021B	3104
MB 880-3119/5-A	Method Blank	Total/NA	Solid	8021B	3119
LCS 880-3119/1-A	Lab Control Sample	Total/NA	Solid	8021B	3119
LCSD 880-3119/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3119

Prep Batch: 3104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-3104/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 3119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-664-1	DS01	Total/NA	Solid	5035	
890-664-2	DS01A	Total/NA	Solid	5035	
890-664-3	DS02	Total/NA	Solid	5035	
890-664-4	DS02A	Total/NA	Solid	5035	
890-664-5	DS03	Total/NA	Solid	5035	
890-664-6	DS03A	Total/NA	Solid	5035	
890-664-7	DS04	Total/NA	Solid	5035	
890-664-8	DS04A	Total/NA	Solid	5035	
890-664-9	DS05	Total/NA	Solid	5035	
890-664-10	DS05A	Total/NA	Solid	5035	
890-664-11	DS06	Total/NA	Solid	5035	
890-664-12	DS06A	Total/NA	Solid	5035	
MB 880-3119/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3119/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3119/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 3125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-664-1	DS01	Total/NA	Solid	8015NM Prep	
890-664-2	DS01A	Total/NA	Solid	8015NM Prep	
890-664-3	DS02	Total/NA	Solid	8015NM Prep	
890-664-4	DS02A	Total/NA	Solid	8015NM Prep	
890-664-5	DS03	Total/NA	Solid	8015NM Prep	
890-664-6	DS03A	Total/NA	Solid	8015NM Prep	
890-664-7	DS04	Total/NA	Solid	8015NM Prep	
890-664-8	DS04A	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: WPX Energy Production LLC
Project/Site: RDX Federal 21-43

Job ID: 890-664-1

GC Semi VOA (Continued)

Prep Batch: 3125 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-664-9	DS05	Total/NA	Solid	8015NM Prep	
890-664-10	DS05A	Total/NA	Solid	8015NM Prep	
890-664-11	DS06	Total/NA	Solid	8015NM Prep	
890-664-12	DS06A	Total/NA	Solid	8015NM Prep	
MB 880-3125/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3125/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3125/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-664-1 MS	DS01	Total/NA	Solid	8015NM Prep	
890-664-1 MSD	DS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-664-1	DS01	Total/NA	Solid	8015B NM	3125
890-664-2	DS01A	Total/NA	Solid	8015B NM	3125
890-664-3	DS02	Total/NA	Solid	8015B NM	3125
890-664-4	DS02A	Total/NA	Solid	8015B NM	3125
890-664-5	DS03	Total/NA	Solid	8015B NM	3125
890-664-6	DS03A	Total/NA	Solid	8015B NM	3125
890-664-7	DS04	Total/NA	Solid	8015B NM	3125
890-664-8	DS04A	Total/NA	Solid	8015B NM	3125
890-664-9	DS05	Total/NA	Solid	8015B NM	3125
890-664-10	DS05A	Total/NA	Solid	8015B NM	3125
890-664-11	DS06	Total/NA	Solid	8015B NM	3125
890-664-12	DS06A	Total/NA	Solid	8015B NM	3125
MB 880-3125/1-A	Method Blank	Total/NA	Solid	8015B NM	3125
LCS 880-3125/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3125
LCSD 880-3125/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3125
890-664-1 MS	DS01	Total/NA	Solid	8015B NM	3125
890-664-1 MSD	DS01	Total/NA	Solid	8015B NM	3125

HPLC/IC

Leach Batch: 3096

Released to Imaging: 9/14/2022 10:36:29 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-664-1	DS01	Soluble	Solid	DI Leach	
890-664-2	DS01A	Soluble	Solid	DI Leach	
890-664-3	DS02	Soluble	Solid	DI Leach	
890-664-4	DS02A	Soluble	Solid	DI Leach	
890-664-5	DS03	Soluble	Solid	DI Leach	
890-664-6	DS03A	Soluble	Solid	DI Leach	
890-664-7	DS04	Soluble	Solid	DI Leach	
890-664-8	DS04A	Soluble	Solid	DI Leach	
890-664-9	DS05	Soluble	Solid	DI Leach	
890-664-10	DS05A	Soluble	Solid	DI Leach	
890-664-11	DS06	Soluble	Solid	DI Leach	
890-664-12	DS06A	Soluble	Solid	DI Leach	
MB 880-3096/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3096/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3096/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-664-9 MS	DS05	Soluble	Solid	DI Leach	
890-664-9 MSD	DS05	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WPX Energy Production LLC Job ID: 890-664-1

Project/Site: RDX Federal 21-43

HPLC/IC

Analysis Batch: 3152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-664-1	DS01	Soluble	Solid	300.0	3096
890-664-2	DS01A	Soluble	Solid	300.0	3096
890-664-3	DS02	Soluble	Solid	300.0	3096
890-664-4	DS02A	Soluble	Solid	300.0	3096
890-664-5	DS03	Soluble	Solid	300.0	3096
890-664-6	DS03A	Soluble	Solid	300.0	3096
890-664-7	DS04	Soluble	Solid	300.0	3096
890-664-8	DS04A	Soluble	Solid	300.0	3096
890-664-9	DS05	Soluble	Solid	300.0	3096
890-664-10	DS05A	Soluble	Solid	300.0	3096
890-664-11	DS06	Soluble	Solid	300.0	3096
890-664-12	DS06A	Soluble	Solid	300.0	3096
MB 880-3096/1-A	Method Blank	Soluble	Solid	300.0	3096
LCS 880-3096/2-A	Lab Control Sample	Soluble	Solid	300.0	3096
LCSD 880-3096/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3096
890-664-9 MS	DS05	Soluble	Solid	300.0	3096
890-664-9 MSD	DS05	Soluble	Solid	300.0	3096

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Job ID: 890-664-1

Client: WPX Energy Production LLC Project/Site: RDX Federal 21-43

Client Sample ID: DS01

Lab Sample ID: 890-664-1

Matrix: Solid

Date Collected: 05/12/21 12:00 Date Received: 05/13/21 08:56

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3119	05/14/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	3103	05/15/21 03:43	MR	XM
Total/NA	Prep	8015NM Prep			3125	05/14/21 13:14	DM	XM
Total/NA	Analysis	8015B NM		1	3146	05/15/21 18:13	AJ	XM
Soluble	Leach	DI Leach			3096	05/14/21 09:31	CH	XM
Soluble	Analysis	300.0		1	3152	05/17/21 10:46	SC	XM

Lab Sample ID: 890-664-2

Matrix: Solid

Client Sample ID: DS01A Date Collected: 05/12/21 12:05 Date Received: 05/13/21 08:56

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 3119 05/14/21 13:30 MR XM Total/NA 8021B 3103 Analysis 05/15/21 04:04 XM1 MR Total/NA Prep 8015NM Prep ΧM 3125 05/14/21 13:14 DM Total/NA 8015B NM ΧM Analysis 3146 05/15/21 19:16 ΑJ Soluble ΧM Leach DI Leach 3096 05/14/21 09:31 СН Soluble Analysis 300.0 1 3152 05/17/21 10:51 SC XM

Client Sample ID: DS02 Lab Sample ID: 890-664-3

Matrix: Solid

Date Collected: 05/12/21 12:10 Date Received: 05/13/21 08:56

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3119	05/14/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	3103	05/15/21 04:24	MR	XM
Total/NA	Prep	8015NM Prep			3125	05/14/21 13:14	DM	XM
Total/NA	Analysis	8015B NM		1	3146	05/15/21 19:37	AJ	XM
Soluble	Leach	DI Leach			3096	05/14/21 09:31	CH	XM
Soluble	Analysis	300.0		1	3152	05/17/21 10:56	SC	XM

Client Sample ID: DS02A

Date Collected: 05/12/21 12:15

Matrix: Solid

Date Received: 05/13/21 08:56

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3119	05/14/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	3103	05/15/21 06:14	MR	XM
Total/NA	Prep	8015NM Prep			3125	05/14/21 13:14	DM	XM
Total/NA	Analysis	8015B NM		1	3146	05/15/21 19:59	AJ	XM
Soluble	Leach	DI Leach			3096	05/14/21 09:31	СН	XM
Soluble	Analysis	300.0		1	3152	05/17/21 11:11	SC	XM

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Page 21 of 31

Client Sample ID: DS03

Lab Sample ID: 890-664-5 Date Collected: 05/12/21 12:20

Matrix: Solid

Date Received: 05/13/21 08:56

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3119	05/14/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	3103	05/15/21 06:34	MR	XM
Total/NA	Prep	8015NM Prep			3125	05/14/21 13:14	DM	XM
Total/NA	Analysis	8015B NM		1	3146	05/15/21 20:20	AJ	XM
Soluble	Leach	DI Leach			3096	05/14/21 09:31	CH	XM
Soluble	Analysis	300.0		5	3152	05/17/21 11:16	SC	XM

Client Sample ID: DS03A Lab Sample ID: 890-664-6 Date Collected: 05/12/21 12:25

Date Received: 05/13/21 08:56

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3119	05/14/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	3103	05/15/21 06:55	MR	XM
Total/NA	Prep	8015NM Prep			3125	05/14/21 13:14	DM	XM
Total/NA	Analysis	8015B NM		1	3146	05/15/21 20:41	AJ	XM
Soluble	Leach	DI Leach			3096	05/14/21 09:31	СН	XM
Soluble	Analysis	300.0		1	3152	05/17/21 11:21	SC	XM

Lab Sample ID: 890-664-7 Client Sample ID: DS04

Date Collected: 05/12/21 12:30 **Matrix: Solid** Date Received: 05/13/21 08:56

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3119	05/14/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	3103	05/15/21 07:15	MR	XM
Total/NA	Prep	8015NM Prep			3125	05/14/21 13:14	DM	XM
Total/NA	Analysis	8015B NM		1	3146	05/15/21 21:02	AJ	XM
Soluble	Leach	DI Leach			3096	05/14/21 09:31	СН	XM
Soluble	Analysis	300.0		1	3152	05/17/21 11:26	SC	XM

Client Sample ID: DS04A Lab Sample ID: 890-664-8

Date Collected: 05/12/21 12:35 **Matrix: Solid** Date Received: 05/13/21 08:56

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3119	05/14/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	3103	05/15/21 07:35	MR	XM
Total/NA	Prep	8015NM Prep			3125	05/14/21 13:14	DM	XM
Total/NA	Analysis	8015B NM		1	3146	05/15/21 21:23	AJ	XM
Soluble	Leach	DI Leach			3096	05/14/21 09:31	CH	XM
Soluble	Analysis	300.0		5	3152	05/17/21 11:31	SC	XM

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Job ID: 890-664-1

Client: WPX Energy Production LLC Project/Site: RDX Federal 21-43

Client Sample ID: DS05

Lab Sample ID: 890-664-9

Date Collected: 05/12/21 12:40 Date Received: 05/13/21 08:56

Odilipic	ID. 030-004-3
	Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3119	05/14/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	3103	05/15/21 07:56	MR	XM
Total/NA	Prep	8015NM Prep			3125	05/14/21 13:14	DM	XM
Total/NA	Analysis	8015B NM		1	3146	05/15/21 21:44	AJ	XM
Soluble	Leach	DI Leach			3096	05/14/21 09:31	CH	XM
Soluble	Analysis	300.0		1	3152	05/17/21 11:36	SC	XM

Lab Sample ID: 890-664-10

Date Collected: 05/12/21 12:45 Date Received: 05/13/21 08:56

Client Sample ID: DS05A

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3119	05/14/21 11:07	MR	XM
Total/NA	Analysis	8021B		1	3103	05/15/21 08:16	MR	XM
Total/NA	Prep	8015NM Prep			3125	05/14/21 13:14	DM	XM
Total/NA	Analysis	8015B NM		1	3146	05/15/21 22:05	AJ	XM
Soluble	Leach	DI Leach			3096	05/14/21 09:31	CH	XM
Soluble	Analysis	300.0		1	3152	05/17/21 13:34	SC	XM

Client Sample ID: DS06 Lab Sample ID: 890-664-11

Matrix: Solid

Date Collected: 05/12/21 12:50 Date Received: 05/13/21 08:56

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3119	05/14/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	3103	05/15/21 08:37	MR	XM
Total/NA	Prep	8015NM Prep			3125	05/14/21 13:14	DM	XM
Total/NA	Analysis	8015B NM		1	3146	05/15/21 22:47	AJ	XM
Soluble	Leach	DI Leach			3096	05/14/21 09:31	СН	XM
Soluble	Analysis	300.0		1	3152	05/17/21 13:39	SC	XM

Client Sample ID: DS06A Lab Sample ID: 890-664-12

Date Collected: 05/12/21 12:55

Matrix: Solid

Date Received: 05/13/21 08:56

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3119	05/14/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	3103	05/15/21 08:57	MR	XM
Total/NA	Prep	8015NM Prep			3125	05/14/21 13:14	DM	XM
Total/NA	Analysis	8015B NM		1	3146	05/15/21 23:08	AJ	XM
Soluble	Leach	DI Leach			3096	05/14/21 09:31	CH	XM
Soluble	Analysis	300.0		1	3152	05/17/21 13:54	SC	XM

Laboratory References:

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

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Accreditation/Certification Summary

Client: WPX Energy Production LLC Job ID: 890-664-1

Project/Site: RDX Federal 21-43

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Total BTEX	

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Method Summary

Client: WPX Energy Production LLC Project/Site: RDX Federal 21-43

Job ID: 890-664-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

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.

Laboratory References:

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

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Sample Summary

Client: WPX Energy Production LLC Project/Site: RDX Federal 21-43

Job ID: 890-664-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dep
890-664-1	DS01	Solid	05/12/21 12:00	05/13/21 08:56	- 0.5
890-664-2	DS01A	Solid	05/12/21 12:05	05/13/21 08:56	- 1
890-664-3	DS02	Solid	05/12/21 12:10	05/13/21 08:56	- 0.5
890-664-4	DS02A	Solid	05/12/21 12:15	05/13/21 08:56	- 1
890-664-5	DS03	Solid	05/12/21 12:20	05/13/21 08:56	- 0.5
890-664-6	DS03A	Solid	05/12/21 12:25	05/13/21 08:56	- 1
890-664-7	DS04	Solid	05/12/21 12:30	05/13/21 08:56	- 0.5
890-664-8	DS04A	Solid	05/12/21 12:35	05/13/21 08:56	- 1
890-664-9	DS05	Solid	05/12/21 12:40	05/13/21 08:56	- 0.5
890-664-10	DS05A	Solid	05/12/21 12:45	05/13/21 08:56	- 1
890-664-11	DS06	Solid	05/12/21 12:50	05/13/21 08:56	- 0.5
890-664-12	DS06A	Solid	05/12/21 12:55	05/13/21 08:56	- 1

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State of Project:	Program: UST/PST PRP Brownfields R	Work Order Commen	TX (214) 902-0300 work Order No: TX (210) 509-3334 TX (806) 794-1296 NM (575) 988-3199 www.xenco.com Page	
Address:	Company Name:	Bill to, (in different)	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-333- EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	
12 12 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1	WPX Engray Permin LLC - Company Name:	Lyndalaumbach	Environment Testing Xenco	
	npany Name: WPX	ject Manager: Lynda L	edroims	

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Chain of Custody 0. TX (281) 240-4200. Dallas, TX (214) 902-0300

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

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	Work Order Comments	www.xenco.com Page C	-3199	-1296	19-3334 Work Order No:
ifields ☐ RRC ☐ Superfund ☐	omments	Page O of	2		

State of Project:

Confection Feating Confect			70		
Name: RDX Federal 21-43 turn Anound Enable Country Enables EDD □ Analysis Request Dome No Location: Personal Republic Control Date Date: Personal Republic Control Date Date: Personal Republic Control Republic Republic Control Republic Control Republic Control Republic Control Republic Control Republic			4		
Name: RDX Federal 21-45 Tourn Acound Preservation Preserva			13.21 08		lind (loc)
Name: ROX Federal 21-45 Turn Account Series Consider Temp Blanc: Yes No Walt local Federal Republic Series Control Sealis: Yes No NA Temperature: Date Time Control Sealis: Yes No NA Temperature: Date Te	Date/Time	Received by: (Signature)	Date/Time Relinquished by: (Signature)	by (Signature)	jinquished by: (Signature) Received
Name: ROX Felleral 21-43 Turn Around Res. Number: ROX Felleral 21-43 Turn Around Res. Number: Round Res. Number: Received by A30m res and received by A30m res. No. Number: Received by A30m res. Number: Received by A30m res. No. Number: Received by A30m res. Number: Received by A30m res. No. Number: Received by A30m res. Number: Received by		gns standard terms and conditions to circumstances beyond the control enforced unless previously negotiated.	nt company to Eurofins Xenco, its affiliates and subcontractors. It assigns any losses or expenses incurred by the client if such losses are due to apply submitted to Eurofins Xenco, but not analyzed. These terms will be	itutes a valid purchase order from cli shall not assume any responsibility roject and a charge of \$5 for each so	Signature of this docurnent and relinquishment of samples const to. Eurofins Xenco will be liable only for the cost of samples and ins Xenco. A minimum charge of \$85.00 will be applied to each p
Name: ROX Federal 21-45 Turn Around ANALYSIS REQUEST Preservatil Number: ANALYSIS REQUEST ANALYSIS REQUEST Preservatil Number: ANALYSIS REQUEST ANALYSIS REQUEST	7470 / 7471		Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	TCLP / SPLP 6010: 8RCR	Method(s) and Metal(s) to be analyzed
STS-725-16H7 Clembra Common Com	<	Ni K Se Ag SiO ₂ Na Sr	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb	13PPM Texas 11	200.7 / 6010 200.8 / 6020:
Competent Comp					
STS-725 CHT Email: Lynda Level And WPKE/Detay-Com Deliverables: EDD ADAPT Other: Other: ANALYSIS REQUEST Preservative ANALYSIS REQUEST Preservative ANALYSIS REQUEST Preservative ANALYSIS REQUEST Preservative ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST Preservative ANALYSIS REQUEST Mone: NO Mone: NO Cool: Cool Cool: Co					
STS-72S-16H7 Email: Wh/New Welfor: Who welfor: Welfor: Wes No NA Temperature Reading: Ves No NA Temperature Reading:					
STS-725-1647 Email: LyMalo, Lcumbada, a) WPXEntycy.com Deliverables: EDD ADAPT Office:					
Name: ROX Federal 21-45 Name: ROX Federal 21-45 Number: Deliverables: EDD ADAPT Other:					
STS-72S-1647 Email: Chyholac Chyhola					
Name: ROX Felleral 21-45 Name: ROX Felleral 21-45 None: NO Location:					
Name: ROX Federal 21-45 Turn Around Control Cont				-	
Name: ROX Federal 21-43 Turn Around ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST Preservative starts the day received by receiv			XXXX	S	
Name: RDX Feller 21-45 Turn Around Preservative Number: Due Date:			XXX	0.5	1506 5 5-12-21
Name: ROX Febler 21-43 Turn Around Preservatin Name: ROX Febler 21-43 Turn Around Preservatin None: No Location: Due Date: Due Date: TAT starts the day received by 4:30pm tell the lab, if received by 4:30pm reservatin SReceived Infact: Yes No N/A Correction Factor Custody Seals: Yes No N/A Temperature Reading: Passing Seals: Yes No N/A Temperature Reading: Yes No N/A Temperature Reading	ample Comments	Sa	Chl Bre Tpt	Depth Grab/	Matrix
Name: RDX Felleral 21-43 Turn Around Preservatin Number: Routine □Rush Code None: No Location: □Rush Code None: No Location: □Rush Code None: No Cool: Cool HCL: HC H₂S0₄: H₂ No. N/A Correction Factor Preservating: □Rush Code None: No N/A Correction Factor No. N/A Correction Factor No. N/A Correction Factor No. N/A Temperature Reading: □Rush No. N/A Temperature No. N/A Temperature Reading: □Rush No. N/A Temperature Reading: □Rush No. N/A Temperature Reading: □Rush No. N/A Temperature Read	Ascorbic Acid: SAPC	NaOH+	ori X	mperature:	
Name: ROX Federal 21-43 Turn Around Preservatii Number: ROX Federal 21-43 Turn Around Routine Rush Code Rush Rody received by 4:30pm the lab. if received by 4:30pm s Received Intact: Yes No N/A Correction Factor Rose Rose Received Intact: Yes No N/A Correction Factor Rose Rose Rose Rose Rose Rose Rose Rose	tate+NaOH: Zn	Zn Acet	Je (n	Reading:	Yes No N/A
Name: ROX Federal 21-43 Turn Around Pres. None: No Treceived by 4:30pm seceived Intact: Yes No Thermometer ID: Parall: Lynda Lcumbad a WDX Energy-com ANALYSIS REQUEST Preservatii ANALYSIS REQUEST Preservatii None: No Cool: Cool HCL: HC H₂SO₄: H₂ H₃PO₄: HP NahSO₄: NABIS) ₃ : NaSO ₃	Na ₂ S ₂ O	ne (Me		Yes No N/A
Name: ROX Federal 21-43 Turn Around Code None: No Wet Ice: Yes No Wet Ice: Y) ₄ : NABIS	NaHSO	El An		Yes No
Name: RDX Feberal 21-43 Turn Around Pres. Name: RDX Feberal 21-43 Turn Around Pres. Code Cod	ĦP	H ₃ PO ₄ :	A d	Yes No	Temp Blank: Yes No
Name: ROX Federal 21-43 Turn Around Code Code Code Code Code Code Code Cod		H ₂ SO ₄ : H	3	Ц_	J
Number: Code Code		HCL: HC	07	TAT starts the day received by	Juler Dominaver
Number: Code Code		Cool: Co	(1) (1)	ue Date:	7
Name: ROX Federal 21-43, Turn Around Lawring and Lawring ANALYSIS REQUEST Preservative		None: N	de es.	Rush	
575-725-1647 Email: Lyndo Laumbach a) WPX Energy-com Deliverables: EDD ADAPT Other:	eservative Codes		ANALYSIS RE		ROX Federal
CAL STATE OF COMPANIES CONT. C	Otner:		WUXENERBY-COM		158-125-1647
				CO Oly, State Zil .	Lar Stack, Will Ook

1089 N Canal St.

Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199

Eurofins Xenco, Carlsbad

13 14

Chain of Custody Record

🔅 eurofins

Environment Testing

Deliverable Requested | | | | | | | | | | | Other (specify) State, Zip: TX, 79701 DS04 (890-664-7) mpty Kit Relinquished by DS05 (890-664-9) DS04A (890-664-8) DS03A (890-664-6) DS03 (890-664-5) LC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. tote: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently naintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco. DS02A (890-664-4) DS02 (890-664-3) DS01A (890-664-2) DS01 (890-664-1) Sample Identification - Client ID (Lab ID) Project Name: RDX Federal 21-43 elinquished by ossible Hazard Identification 432-704-5440(Tel) Midland linquished by linquished by: 211 W Florida Ave confirmed lient Information rofins Xenco ipping/Receiving ि Custody Seal No (Sub Contract Lab で考 5.23.2 Project #: 88000204 Date/Time Primary Deliverable Rank 2 Due Date Requested 5/19/2021 Sample **№** AT Requested (days) hone Sample Date 5/12/21 5/12/21 5/12/21 5/12/21 5/12/21 5/12/21 5/12/21 5/12/21 5/12/21 Date Mountain 12 40 Mountain 12 30 Mountain 12 35 Mountain 12 10 Mountain 12 05 Mountain 12 25 Mountain 12 20 Mountain 12 15 Sample 1200 (C=comp, G=grab) Sample Preservation Code: Type Company Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Jessica kramer@eurofinset.com Kramer Jessica Time Field Filtered Sample (Yes or No) NELAP - Louisiana NELAP - Texas Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont Received by × × × 300_ORGFM_28D/DI_LEACH Chloride Cooler Temperature(s) °C and Other Remarks × × × × \times × \times × × × × × \times 8015MOD_NM/8015NM_S_Prep Full TPH × × × × × × × × 8021B/6036FP_Calc BTEX × Analysis Requested State of Origin New Mexico Carrier Tracking No(s): Method of Shipment Date/Time Total Number of containers A HCL
B NaOH
C - Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor COC No: 890-217 1 K-EDTA Preservation Codes Page 1 of 2 H - Ascorbic Acid 390-664-1 Ice DI Water 든 R - Nazoza S H2SO4 Jd T - TSP Dodecahydrate U Acetone V MCAA W pH 4-5 3 ρυοΖΖ Company Ver: 11/01/2020 Company company Hexane None AsNaO2 Na2O4S Na2SO3 - Na2SO3 - Na2S2O3 Months

Login Sample Receipt Checklist

Client: WPX Energy Production LLC Job Number: 890-664-1

Login Number: 664 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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	

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Login Sample Receipt Checklist

Client: WPX Energy Production LLC Job Number: 890-664-1

Login Number: 664 **List Source: Eurofins Midland** List Number: 2 List Creation: 05/14/21 11:10 AM

Creator: Copeland, Tatiana

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.	True	
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").	True	



Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 1/24/2020 Job Number: 04108-0639 Work Order: P001077

Project Name/Location: RDX 21-43 (2RP-4464)

Report Reviewed By:	Walter Hunkerum	Date:	1/30/20	

Walter Hinchman, Laboratory Director



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24 Hour Emergency Response Phone (800) 362-1879



5315 Buena Vista Dr Project Number: 04108-0639 Reported: 01/30/20 16:45 Carlsbad NM, 88220 Project Manager: Lynda Laumbach

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TT1 @ 2'	P001077-01A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT1 @ 6'	P001077-02A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT2 @ 2'	P001077-03A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT2 @ 6'	P001077-04A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT3 @ 2'	P001077-05A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT3 @ 8'	P001077-06A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT4 @ 2'	P001077-07A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT4 @ 10'	P001077-08A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.

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5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Lynda Laumbach 01/30/20 16:45

TT1 @ 2' P001077-01 (Solid)

		1 0010	77-01 (3011	u)					
		Reporting	·			·			· ·
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-13	50	2005010	01/27/20	01/28/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005011	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005011	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		85.7 %	50-20	90	2005011	01/27/20	01/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.3 %	50-13	50	2005010	01/27/20	01/28/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	7190	100	mg/kg	5	2005020	01/28/20	01/29/20	EPA 300.0/9056A	

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5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Lynda Laumbach 01/30/20 16:45

TT1 @ 6' P001077-02 (Solid)

		P0010	77-02 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Di	lution Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021								
Benzene	ND	0.0250	mg/kg 1	2005010	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1	2005010	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1	2005010	01/27/20	01/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1	2005010	01/27/20	01/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1	2005010	01/27/20	01/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1	2005010	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-150	2005010	01/27/20	01/28/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	D/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2005011	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2005011	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		86.3 %	50-200	2005011	01/27/20	01/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2005010	01/27/20	01/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.2 %	50-150	2005010	01/27/20	01/28/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	520	100	mg/kg 5	2005020	01/28/20	01/29/20	EPA 300.0/9056A	

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5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Lynda Laumbach 01/30/20 16:45

TT2 @ 2' P001077-03 (Solid)

		F 0010	77-03 (80110	.)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg 1		2005010	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1		2005010	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1		2005010	01/27/20	01/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1		2005010	01/27/20	01/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1		2005010	01/27/20	01/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1		2005010	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	50-15	0	2005010	01/27/20	01/28/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		2005011	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		2005011	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		81.7 %	50-20	0	2005011	01/27/20	01/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		2005010	01/27/20	01/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.5 %	50-15	0	2005010	01/27/20	01/28/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	636	20.0	mg/kg 1		2005020	01/28/20	01/29/20	EPA 300.0/9056A	

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5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Lynda Laumbach 01/30/20 16:45

TT2 @ 6' P001077-04 (Solid)

		1 0010	117-04 (301	iuj					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-1	150	2005010	01/27/20	01/28/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005011	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005011	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		89.1 %	50-2	200	2005011	01/27/20	01/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.6 %	50-1	150	2005010	01/27/20	01/28/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	238	100	mg/kg	5	2005020	01/28/20	01/29/20	EPA 300.0/9056A	

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5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Lynda Laumbach 01/30/20 16:45

TT3 @ 2' P001077-05 (Solid)

		P0010	777-05 (Solid)					
		Reporting	•					•
Analyte	Result	Limit	Units Di	lution Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021								
Benzene	ND	0.0250	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-150	2005010	01/27/20	01/29/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2005011	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2005011	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		88.2 %	50-200	2005011	01/27/20	01/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO	<u> </u>							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.0 %	50-150	2005010	01/27/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	3560	40.0	mg/kg 2	2005020	01/28/20	01/29/20	EPA 300.0/9056A	

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5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Lynda Laumbach 01/30/20 16:45

TT3 @ 8' P001077-06 (Solid)

		F 0010	///-00 (Sona	<u>) </u>					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg 1		2005010	01/27/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1		2005010	01/27/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1		2005010	01/27/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1		2005010	01/27/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1		2005010	01/27/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1		2005010	01/27/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-15	9	2005010	01/27/20	01/29/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		2005011	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		2005011	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		93.4 %	50-20	9	2005011	01/27/20	01/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		2005010	01/27/20	01/29/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.2 %	50-150	9	2005010	01/27/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	563	20.0	mg/kg 1		2005020	01/28/20	01/29/20	EPA 300.0/9056A	

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5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Lynda Laumbach 01/30/20 16:45

TT4 @ 2' P001077-07 (Solid)

		1 0010	77-07 (301	iuj					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-1	150	2005010	01/27/20	01/29/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005011	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005011	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		93.4 %	50-2	200	2005011	01/27/20	01/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.4 %	50-1	150	2005010	01/27/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	6600	100	mg/kg	5	2005020	01/28/20	01/29/20	EPA 300.0/9056A	

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5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Lynda Laumbach 01/30/20 16:45

TT4 @ 10' P001077-08 (Solid)

		P0010	77-08 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Dilut	ion Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021								
Benzene	ND	0.0250	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-150	2005010	01/27/20	01/29/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2005011	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2005011	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		95.7 %	50-200	2005011	01/27/20	01/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2005010	01/27/20	01/29/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.4 %	50-150	2005010	01/27/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	583	20.0	mg/kg 1	2005020	01/28/20	01/29/20	EPA 300.0/9056A	

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5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Lynda Laumbach 01/30/20 16:45

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source	_	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2005010 - Purge and Trap EPA 5030A										
Blank (2005010-BLK1)				Prepared: (01/27/20 1 A	Analyzed: 0	01/30/20 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	7.96		"	8.00		99.5	50-150			
LCS (2005010-BS1)				Prepared: (01/27/20 1 A	Analyzed: 0	01/28/20 1			
Benzene	5.07	0.0250	mg/kg	5.00		101	70-130			
Toluene	5.15	0.0250	"	5.00		103	70-130			
Ethylbenzene	5.07	0.0250	"	5.00		101	70-130			
p,m-Xylene	10.1	0.0500	"	10.0		101	70-130			
o-Xylene	5.03	0.0250	"	5.00		101	70-130			
Total Xylenes	15.1	0.0250	"	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.10		"	8.00		101	50-150			
Matrix Spike (2005010-MS1)	Sou	rce: P001077-	01	Prepared: 01/27/20 1 Analyzed: 01/28/20 2						
Benzene	4.90	0.0250	mg/kg	5.00	ND	97.9	54.3-133			
Toluene	5.02	0.0250	"	5.00	ND	100	61.4-130			
Ethylbenzene	4.95	0.0250		5.00	ND	99.0	61.4-133			
p,m-Xylene	9.84	0.0500		10.0	ND	98.4	63.3-131			
o-Xylene	4.92	0.0250	"	5.00	ND	98.4	63.3-131			
Total Xylenes	14.8	0.0250		15.0	ND	98.4	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.20		"	8.00		103	50-150			
Matrix Spike Dup (2005010-MSD1)	Sou	rce: P001077-	01	Prepared: (01/27/20 1 <i>A</i>	Analyzed: 0	01/28/20 2			
Benzene	4.87	0.0250	mg/kg	5.00	ND	97.5	54.3-133	0.454	20	
Toluene	5.00	0.0250	mg/kg	5.00	ND	100	61.4-130	0.454	20	
Ethylbenzene	4.94	0.0250	,,	5.00	ND	98.8	61.4-133	0.212	20	
p,m-Xylene	9.82	0.0500	,,	10.0	ND	98.2	63.3-131	0.212	20	
o-Xylene	4.91	0.0250		5.00	ND	98.2	63.3-131	0.239	20	
Total Xylenes	14.7	0.0250		15.0	ND ND	98.2	63.3-131	0.259	20	
· · · · · · · · · · · · · · · · · · ·		0.0230	"		110			0.202	20	
Surrogate: 4-Bromochlorobenzene-PID	8.21		"	8.00		103	50-150			

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5315 Buena Vista Dr Project Number: 04108-0639 Reported: Carlsbad NM, 88220 Project Manager: Lynda Laumbach 01/30/20 16:45

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005011 - DRO Extraction EPA 3570	Trout			20101	resurt	7,02420	Ziiiito		Ziiiit	1.363
Blank (2005011-BLK1)				Prepared: 0	1/27/20 1 A	Analyzed: 0	1/27/20 2			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0								
Surrogate: n-Nonane	46.4		"	50.0		92.8	50-200			
LCS (2005011-BS1)				Prepared: 0	1/27/20 1 A	Analyzed: 0	1/27/20 2			
Diesel Range Organics (C10-C28)	453	25.0	mg/kg	500		90.7	38-132			
Surrogate: n-Nonane	48.2		"	50.0		96.5	50-200			
Matrix Spike (2005011-MS1)	Sour	ce: P001075-0)1	Prepared: 0	1/27/20 1 A	Analyzed: 0	1/28/20 1			
Diesel Range Organics (C10-C28)	476	25.0	mg/kg	500	ND	95.3	38-132			
Surrogate: n-Nonane	47.7		"	50.0		95.4	50-200			
Matrix Spike Dup (2005011-MSD1)	Sour	ce: P001075-0)1	Prepared: 0	1/27/20 1 A	Analyzed: 0	1/28/20 1			
Diesel Range Organics (C10-C28)	470	25.0	mg/kg	500	ND	94.1	38-132	1.23	20	
Surrogate: n-Nonane	46.1		"	50.0		92.3	50-200			

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7.15

5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Lynda Laumbach 01/30/20 16:45

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Spike

8 00

89.4

50-150

Source

%REC

RPD

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2005010 - Purge and Trap EPA 5030A										
Blank (2005010-BLK1)				Prepared:	01/27/20 1	Analyzed: (01/30/20 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		"	8.00		88.1	50-150			
LCS (2005010-BS2)				Prepared:	01/27/20 1 2	Analyzed: (01/28/20 1			
Gasoline Range Organics (C6-C10)	46.6	20.0	mg/kg	50.0		93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		"	8.00		88.5	50-150			
Matrix Spike (2005010-MS2)	Sour	ce: P001077-	01	Prepared:	01/27/20 1	Analyzed: (01/28/20 2			
Gasoline Range Organics (C6-C10)	48.2	20.0	mg/kg	50.0	ND	96.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.12		"	8.00		89.0	50-150			
Matrix Spike Dup (2005010-MSD2)	Sour	ce: P001077-	Prepared:	01/27/20 1 2	Analyzed: (01/28/20 2				
Gasoline Range Organics (C6-C10)	45.1	20.0	mg/kg	50.0	ND	90.2	70-130	6.61	20	

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 ${\it Surrogate: 1-Chloro-4-fluorobenzene-FID}$

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Dacult

5315 Buena Vista DrProject Number:04108-0639Reported:Carlsbad NM, 88220Project Manager:Lynda Laumbach01/30/20 16:45

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Linite

Reporting

Limit

Spike

Source

Dacult

%PEC

%REC

Limite

DDD

RPD

Limit

Analyte	Result	Lillit	Units	Levei	Resuit	70KEC	Limits	KrD	LIIIII	Notes
Batch 2005020 - Anion Extraction EPA 30	0.0/9056A									
Blank (2005020-BLK1)				Prepared: ()1/28/20 1 A	Analyzed: 0	1/29/20 0			
Chloride	ND	20.0	mg/kg							
LCS (2005020-BS1)				Prepared: ()1/28/20 1 A	Analyzed: 0	1/29/20 0			
Chloride	254	20.0	mg/kg	250		101	90-110			
Matrix Spike (2005020-MS1)	Prepared: (Prepared: 01/28/20 1 Analyzed: 01/29/20 0								
Chloride	7310	100	mg/kg	250	7190	49.2	80-120			M4
Matrix Spike Dup (2005020-MSD1)	01	Prepared: ()1/28/20 1 A	Analyzed: 0	1/29/20 0					
Chloride	7800	100	mg/kg	250	7190	246	80-120	6.52	20	M4

QC Summary Report

Comment:

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

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5315 Buena Vista Dr Project Number: 04108-0639 Reported:
Carlsbad NM, 88220 Project Manager: Lynda Laumbach 01/30/20 16:45

Notes and Definitions

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

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Page 15 of 17

Attention: Address:	Report due by:	N/O# Job N	Job Number	1D 3D	RCRA	A CWA SDWA
Address:		计	DHIOR-DIASE	3		
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i, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:	g with or intentionally mislabelling the sample location, d		samples requiring thermal preservation must be received onlice the day they are sam received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.	ervation must be r temp above 0 but	eceived on ice the less than 6 °C or	samples requiring thermal preservation must be received on ice the day tree's re sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.
	Received by (Signature) & Date	Time /67.3	Received on ice:	Lab Use Only	Only	
Date Time Receip	of by: (Signature)	Time [4:2]	T1 AVG Temp °C	42		T3
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Note: Samples are discarded 30 days after results are reported unless other arrange	nade. Hazardous sampl	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA es will be returned to client or disposed of at the client expense. The report for the mited to the amount paid for an the report	lastic, ag - ar t the client expe	nber glass, nse. The repo	v - VOA	nalysis of the above
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Analytical Laboratory	Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301		Ph (970) 259-0615 Fr (800) 362-1879			laboratory evinyroteck-inc.com

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Chain of Custody	Report Attention	Report due by:	Attention:	Address:	City, State, Zip	Phone:	Email: 16 sept (2) etechenr.com)	120	(0) (0)	12 (2)	,90	(A)	(a) (b)	12 6	101					
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Note! Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA > Ph (505) 632-0615 Fx (505) 632-1865 Received on ice: AVG Temp °C samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboraotry is limited to the amount paid for on the report. 19:30

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vy: (Signature)

124 20

1-23.2020

Time

Date

Received by (Signature)

4:23

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3

5/6/

1.24.2020

Signature)

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

), (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or

time of collection is considered fraud and may be grounds for legal action. Sampled by:

Relinquished by: (Signature)

Samples requiring thermal preservation must be received on ice the day they are sampled or

received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Lab Use Only

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Analytical Laboratory envirotech

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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 52381

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	52381
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
amaxwell	None	9/14/2022