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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NRM2006956859
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party: WPX	Energy Permian,	LLC.		OGRID: 24	46289							
Contact Nan	ne: Lynda La	numbach			Contact Te	elephone: (575) 725-164	17						
Contact ema	il: Lynda.La	umbach@wpxene	ergy.com		Incident #	Incident # (assigned by OCD)							
Contact mail	ling address:	5315 Buena Vist	a Drive, Carlsbad	8220									
	Location of Release Source												
Latitude 3	Latitude 32.0926458 Longitude -103.9492524 (NAD 83 in decimal degrees to 5 decimal places)												
Site Name: N	orth Brushy	Draw Federal 35	#002H		Site Type:	Production Facility							
Date Release	Discovered	: 02/28/2020			API# (if app	licable): 30-015-40006							
Unit Letter	Section	Township	Range		Coun	tv							
A	35	25S	29E	Edd									
Surface Owne		▼ Federal □ T	Nature an	d Vo	lume of I	Release justification for the volumes p	provided below)						
Crude Oi	1	Volume Release				Volume Recovered (b							
X Produced	Water	Volume Release	ed (bbls): 13			Volume Recovered (b	bls): 0						
		Is the concentra produced water	tion of dissolved >10,000 mg/l?	chloride	e in the	Yes No							
Condensa	ate	Volume Release	ed (bbls)			Volume Recovered (b	bls)						
Natural C	Gas	Volume Release	ed (Mcf)			Volume Recovered (N	Mcf)						
Other (de	escribe)	Volume/Weigh	t Released (provi	de units))	Volume/Weight Reco	vered (provide units)						
Cause of Release: An illegal dump location was found on February 28, 2020. Based on field screens, saturation depth was approximately 3 inches. A third-party contractor has been obtained to complete remediation activities.													
	$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^3)}{4.21(\frac{ft^3}{bbl\ equivalent})}*estimated\ soil\ porosity(\%)$												

Received by OCD: 7/30/2021/12:00:14 AM State of New Mexico
Page 2 Oil Conservation Division

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Incident ID	NRM2006956859
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Was this a major release as defined by	If YES, for what reason(s) does the respon	sible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ☒ No		
ICVEC i 1:-4	this since to the OCD? December 2 To only	
II YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Ro	esponse
The responsible p	party must undertake the following actions immediatel	v unless they could create a safety hazard that would result in injury
\overline{X} The source of the rele	ease has been stopped.	
X The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	we been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
_	ecoverable materials have been removed and	
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy: Illegal dump
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
regulations all operators are public health or the environmentalled to adequately investigations.	required to report and/or file certain release notinent. The acceptance of a C-141 report by the Cate and remediate contamination that pose a thre	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Lyne	da Laumbach	Title: Environmental Specialist
Signature:	Sambach	Date: 03/09/2020
email: Lynda.Laumbacl	h@wpxenergy.com	Telephone: (575)725-1647
OCD Only		
_		2/0/2020
Received by: Ramor	na Marcus	Date: 3/9/2020

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Incident ID	NRM2006956859
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

X A scaled site and sampling diagram as described in 19.15.2	9.11 NMAC										
Note That Photographs of the remediated site prior to backfill or photographs be notified 2 days prior to liner inspection)	tos of the liner integrity if applicable (Note: appropriate OCD District office										
X Laboratory analyses of final sampling (Note: appropriate O	DC 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 cer may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or reg	-										
OCD Only											
Received by:	Date:										
	rty of liability should their operations have failed to adequately investigate and ce water, human health, or the environment nor does not relieve the responsible ad/or regulations.										
Closure Approved by:	Date:										
Printed Name:	Title:										



July 29, 2021 Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210

Re: North Brushy Draw Federal 35 #002H Illegal Dump (NRM2006956859)

Mr. Bratcher,

On November 12, 2020 WPX submitted a remediation plan for the release NRM2006956859. The plan was approved on April 7, 2021 to complete remediation activities and advance the excavation until all samples were below 600 mg/kg chlorides and all sidewall sample results were below TPH levels of 100 mg/kg.

Well Location: North Brushy Federal 35 #002H

API #:30-015-40006

NMOCD Reference #: NRM2006956859

Site Location Description: Unit Letter A, Section 35, Township 25S, Range 29E

Release Latitude/Longitude: N32.09632, W103.949269

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 May 10, 2021 the excavation was advanced to a depth of four feet below ground surface (bgs). Floor samples FS01-FS06 and sidewalls SW01-SW04 were taken across the excavation area. On June 21, 2021 FS07-FS11 were taken to address contamination at previous samples J2-J5. FS07 through FS09 and FS11 were taken at an excavated depth of 0.5' for the day, this was in addition to the one foot that was previously excavated and documented in the remediation plan. All sample locations are depicted in Figure 02. Sample FS10 was omitted due to a broken sample jar and was resampled on July 12, 2021.

Pictures of the excavation activities are provided in Attachment 02. A project total of 240 cubic yards was excavated and hauled to disposal. All waste was hauled to R360 Hobbs Transportation Facility, 4507 W Carlsbad Hwy in Lea County, New Mexico.

Sampling Activities and Laboratory Analytical Results

Floor and sidewall samples were collected via 5-point composite sampling over areas no greater than 200 square feet across the excavation area. The laboratory analytical results for the excavation of impacted soils confirmed that all floor, sidewall, and discrete samples were compliant with the closure criteria for this Site. All samples were below the allowable standards

5305 Buena Vista Dr. | Carlsbad, NM 88220 | 575.885.1313 Tel | 575.885.3509 Fax | www.wpxenergy.com

for Chloride, BTEX, and TPH. All sample results are summarized in Table 01 and complete lab results are provided in Attachment 03.

- Chloride samples ranged from 18 mg/kg to 443 mg/kg
- BTEX analysis ranged from below the Laboratory detectable limit to 0.0239 mg/kg
- Benzene analysis ranged from below the Laboratory detectable limit to 0.0239 mg/kg
 TPH ranged from below the Laboratory detectable limit to 473 mg/kg

Conclusions

The laboratory analytical results to address the impacted soils from NRM2006956859 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

Juda Sambach

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

Attachments:

Figure 01 Site Map
Figure 02 Excavation Activities
Table 01 Sample Results
Attachment 01 RDX/RDU Depth to Water Report
Attachment 02 Photograph Log
Attachment 03 Laboratory Analytical Results

Table(s)

TABLE 01 **SOIL SAMPLE ANALYTICAL RESULTS**



North Brushy Draw Federal 35 #002H NMOCD REFERENCE NUMBER: NRM2006956859

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)
FS01	4	5/10/2021	<0.00202	-	<49.9	<49.9	<49.9	-	-	114
FS02	4	5/10/2021	<0.00202	-	<49.8	<49.8	<49.8	-	-	272
FS03	4	5/10/2021	<0.00200	-	<49.8	<49.8	<49.8	-	-	65
FS04	4	5/10/2021	<0.00200	-	<50.0	68	<50.0	68	68	73
FS05	4	5/10/2021	0.00293	0.00293	<49.9	<49.9	<49.9	-	-	443
FS06	4	5/10/2021	<0.00200	-	473	<49.9	<49.9	473.0	473.0	83
SW01	2	5/10/2021	<0.00200	-	<50.0	<50.0	<50.0	-	-	277
SW02	2	5/10/2021	<0.00199	-	<49.8	<49.8	<49.8	-	-	70
SW03	2	5/10/2021	<0.00199	-	<49.9	<49.9	<49.9	-		283
SW04	2	5/10/2021	<0.00201	-	<50.0	<50.0	<50.0	-		134
FS07	0.5	6/21/2021	<0.00199	-	<49.8	<49.8	<49.8	-	-	53
FS08	0.5	6/21/2021	<0.00198	-	<49.8	<49.8	<49.8	-	-	36
FS09	0.5	6/21/2021	<0.00202	-	<50.0	<50.0	<50.0	-	-	63
FS10	0.5	7/12/2021	<0.00200	-	<50.0	<50.0	<50.0	-	-	<4.95
FS11	0.5	6/21/2021	<0.00202	-	<49.8	<49.8	<49.8	-	-	18
NMOCD Table 1	Closure C	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 NMOCD: New Mexico Oil Conservation Division GRO: gasoline range organics

DRO: diesel range organics

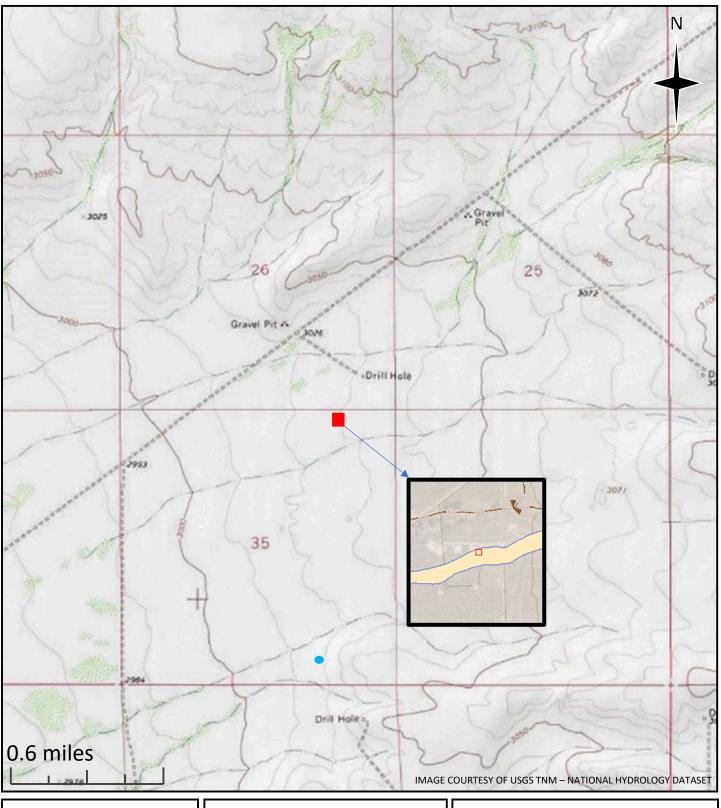
ft bgs: feet below ground surface

NMOCD Table 1 Closure Criteria: NMAC 19.15.29 August 2018 criteria for soils impacted based on characterization

TPH: total petroleum hydrocarbons

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.

Figures



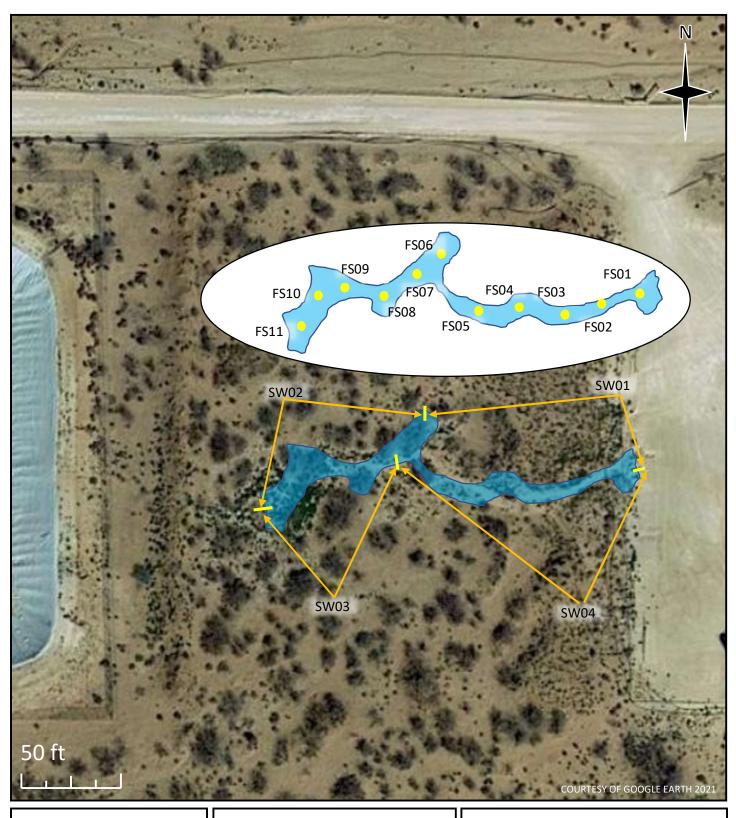


Legend

- WPX Wells (DTW determination)
- Site Location
- 100-year Flood Plain

Figure 01 North Brushy Draw Federal 35 #002 Illegal Dump

Permian Basin, Eddy County, NM 32.0926, -103.9492524





Legend

Excavation Extent

Figure 02
North Brushy Draw Federal 35 #002
Illegal Dump
Permian Basin, Eddy County, NM
32.0926, -103.9492524

Attachment 01: 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

		HR	1				BORI	NG LOG/	MONITORING W	ELL COMPLETIO	N DIAGRAM	
\nearrow		U 170 M		IAN	CE		Boring/Wel		W-1	Location: RDX 16	i_25	
		2 0	<u>, II , </u>	TIN	NS		Date:			Client:		
Drilling Me	-41 - 41	0 0	L 0	Made de	14 0		I I D		0/2020	WPX Energy Drilled By:		
_	emoa: Air Rotar	y	Sampling 1		one		Logged By: J. Linn, PG			Talon L	PE	
Gravel Pac	ravel Pack Type: Gravel Pack Depth Interval:						Seal Type:		Seal Depth Interval:	Latitude:		
Casing Typ	.0/20 san	Diameter:		3 b	ags			Jone al Depth (ft. BC	None None	32.0399 Longitude:	004	
PVC	ρε.	2-inch		0-105 fe	eet bgs		Bornig rou	1]		-103.883	3368	
Screen Typ	oe:	Slot:	1	Diameter:		Interval:	Well Total	Depth (ft. BGS			DTW Date:	
PVC		0.010-iı	nch I	2-inch	105-	110 ft		11 	10 I	> 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 with silt		
25 30 35	NM	L	D	N	N	NM	SP	NS		e poorly graded fine and		
40	NM	L	D	N	N	NM	SW	NS		d well graded sand gravel	Ţ 	
50 55	NM	L	D	N	N	NM	SP	NS		e 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	e poorly graded fine medium and coarse D: 110' bgs		

HRL								BORING LOG/MONITORING WELL COMPLETION DIAGRAM					
/		U VENEZA DE VIII	7.12	IAN	C F		Boring/Wel		W-1	Location: RDX 17	#3		
		S O	Ï U 1	ומוו	NS		Date:			Client:			
Drilling Me	ethod:	0 0	Sampling N	Method:			Logged By:		3/2020	WPX Energy Drilled By:			
1	Air Rotar	y		No	ne		Logged By		nn, PG	Talon L	PE		
	ravel Pack Type: Gravel Pack Depth Interval: 3 Bags						Seal Type:	Iona	Seal Depth Interval:	Latitude:	165		
Casing Typ		Diameter:		Depth Inter				Ione al Depth (ft. BG	None None	32.0367 Longitude:	03	\dashv	
PVC		2-inch		0-102 fe				10		-103.895			
Screen Typ PVC	e:	Slot: 0.010-i1	nch	Diameter: 2-inch		Interval: 107 ft	Well Total	Depth (ft. BGS)		Depth to Water (ft. BTOC): > 107	DTW Date: 12/16/2020	.0	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	nscs	Sample ID		y/Remarks	Well Completio		
0 5 10 15 20 25	NM	L	D	N	N	NM	SP	NS	Pale orange poor	ly graded fine sand ·	- - - -		
30 35	NM	L	D	N	N	NM	SP	NS		th slight increase in d and gravel			
40 45 50	NM	L	D	N	N	NM	SP	NS		ly graded fine sand			
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 well	graded fine sand			
65 70 75 80 85	NM	М	SL M	N	N	NM	SM	NS	_	ayey silty fine sand see sand and gravel			
90 95 100 105	NM	L	SL M	N	N	NM	SP	NS		y sorted fine sand - 17' BGS			

\nearrow		HR CO SO	L M P L L U 1	1 A N 「 1 O	C E N S		BORING LOG/MONITORING W Boring/Well Number: MW-1 Date: 12/8/2020			Location: RDX Federal Com 17-44H Client: WPX Energy	
Drilling Me			Sampling 1				Logged By: J. Linn, PG			Drilled By:	DE
Gravel Paci	Air Rotar k Type:	У	Gravel Pac	NO k Depth Inte	one erval:		Seal Type:	J. Lin	Seal Depth Interval:	Talon L	PE
1	10/20 Sand 3 Bags						N	one	None	32.0496	56
Casing Typ PVC							Boring Total	Depth (ft. BGS	6): 10	Longitude: -103.904	054
Screen Typ	oe:	2-inch Slot:		Diameter:		Interval:	Well Total D	epth (ft. BGS):	10	Depth to Water (ft. BTOC):	
PVC	_	0.010-ii	nch	2-inch		110 ft			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 25 30 35 40	NM	L	D	N	N	NM	CE	NS	Buff to pale pin	k colored caliche - - - - - -	-
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	L						MONITORING W	ELL COMPLETION	N DIAGRAM
/				IAN	C F		Boring/We		[W-1	Location: RDX Federal C	Com 21-43
		SO	Ï U -	1 0 1	N S		Date:			Client:	
Drilling Me	ethod:	-	Sampling 1	Method:			Logged By		9/2020	WPX Energy Drilled By:	
_	Air Rotar		Sampinig		ne		J. Linn, P.G.			Talon L	PE
Gravel Pacl	k Type:	·	Gravel Pac	ck Depth Inte			Seal Type:		Seal Depth Interval:	Latitude:	
	0/20 Sar			3 B				lone	None	32.0225	71
Casing Typ PVC	e:	Diameter: 2-inch		Depth Inter			Boring Tota	al Depth (ft. Bo	GS): 10	Longitude: -103.884	371
Screen Typ	e:	Slot:		Diameter:		Interval:	Well Total	Depth (ft. BGS			DTW Date:
PVC		0.010-ir	nch	2-inch		105 ft			05	> 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	SP	NS	_	poorly graded fine and	-
20	NM	Н	D	N	N	NM	CL	NS	Pale orange/tan/pale red clay, dry, with silt, fine sand, and 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' BGS	+

		HR					BORING LOG/MONITORING WELL COMPLETION DIAGRAM Boring/Well Number: Location:					
		CO	MPL	IAN	C E		Boring/Wel		W-1	Location: Ross Draw U	Jnit #38	
	74	SO	LU	101	NS		Date:			Client:		
Drilling Me	ethod:		Sampling 1	Method:			Logged By:		3/2020	WPX Energy Drilled By:		
	Air Rotai	·y	, -	No	one				nn, PG	Talon L	PE	
Gravel Paci	k Type: 0/20 Sar	nd	Gravel Pac	ck Depth Inte			Seal Type:	Ione	Seal Depth Interval: None	Latitude: 32.0303	500	
Casing Typ		Diameter:		Depth Inter	val:			al Depth (ft. BC		Longitude:		
PV Screen Typ	VC	2-inch		0-100 fe		Interval:	Wall Tatal	10 Depth (ft. BGS	05	-103.871 Depth to Water (ft. BTOC):		
PV		0.010-ii	nch	2-inch		105 ft	wen rotai). 05	> 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	SW	NS	fine sand with m	oink to buff colored hinor medium and he sand	-	
20 25 30	NM	L	D	N	N	NM	SP	NS	Pale orange/pale fine			
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 - T			

		HR	ı						MONITORING W	ELL COMPLETION	N DIAGRAM
		C O	MPI	ΙΔΝ	C F		Boring/Wel		W-1	Location: Ross Draw U	Init #55
		SO	וֹ עוֹ ז	101	NS		Date:			Client:	
Drilling Me	ethod:		Sampling 1	Method:			Logged By:		0/2020	WPX End	ergy
1	ir Rotar	у		No	one		Logged Dy.		nn, PG	Talon L	PE
Gravel Pacl			Gravel Pac	k Depth Into			Seal Type:	r	Seal Depth Interval:	Latitude:	
Casing Typ	0/20 Sar	10 Diameter:		Depth Inter	ags val:			lone al Depth (ft. BC	None None	32.0161 Longitude:	65
PVC		2-inch		0-101'7	"			106	5'7"	-103.863	
Screen Typ	e:	Slot:	1.	Diameter:		Interval:	Well Total	Depth (ft. BGS		1 '	DTW Date:
PVC		0.010-ir	nen	2-inch	101'7"			106	D' / " 	>106' 7"	12/16/2020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	(mdd) (IIA	SOSO	Sample ID	Litholog	y/Remarks	Well Completion
0 5 10 15	NM	L	D	N	N	NM	SP	NS	•	olored poorly graded n minor silt	-
20 25 30	NM	L	D	N	N	NM	SW	NS	_	ell graded fine sand - um and coarse sand -	-
35 40 45 50 55 60	NM	L	D	N	N	NM	SP	NS		n poorly graded fine minor gravel -	-
65 70 75 80 85	NM	L	D	N	N	NM	SP	NS		ded fine sand with regravel -	
90 95	NM	L	D	N	N	NM	SP	NS		ly 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	L						MONITORING W	ELL COMPLETION	N DIAGRAM
		0.000	MPL	IAN	CE		Boring/Wel		W-1	Location: Ross Draw U	Init #57
	74	SO	LUI	101	NS		Date:			Client:	
Drilling Me	ethod:		Sampling N	Method:			Logged By:		0/2020	WPX End	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:	l	Depth Inter	val:			al Depth (ft. BC		Longitude:	
PVC Screen Typ	20.	2-inch		0-105 fe		Interval:	Wall Total	Depth (ft. BGS	10	-103.872 Depth to Water (ft. BTOC):	
PVC	JC.	0.010-ii	nch	2-inch		110 ft	Well Total). 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 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	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	ı						MONITORING W	ELL COMPLETION	N DIAGRAM			
/			MPL	IAN	C F		Boring/Wel		W-1	Location: North Brushy Fede	ral 35 # 010H			
	150	5 0	וֹ וו וֹ	וחוי	NS		Date:	171	W 1	Client:	141 33 11 01011			
D. 11: . M	1 1	0 0		14.1	11 0		I 1D		3/2020	WPX End	ergy			
Drilling Me	etnoa: Air Rotar	v	Sampling N		one		Logged By:		nn, PG	Drilled By: 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 Sar	nd Diameter:		3 B Depth Inter	ags			Ione al Depth (ft. BC	None	32.0799 Longitude:	09			
PVC		2-inch		0-100 fe				10	05		-103.951386			
Screen Typ	e:	Slot:		Diameter:		Interval:	Well Total	Depth (ft. BGS		Depth to Water (ft. BTOC):	DTW Date:			
PVC		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	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- East face, facing pad	Picture 2- East face, facing pad
10-May-21	10-May-21
Picture 3- West face, west edge of location	
10-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: 890-654-1

Client Project/Site: North Brushy Draw Fed 35

For:

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

Attn: Lynda Laumbach

RAMER

Authorized for release by: 5/13/2021 12:11:18 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

·····LINKS ·······

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Released to Imaging: 10/1/2021 10:56:45 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.

Laboratory Job ID: 890-654-1

Client: WPX Energy Production LLC Project/Site: North Brushy Draw Fed 35

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Definitions/Glossary

Client: WPX Energy Production LLC
Project/Site: North Brushy Draw Fed 35

Job ID: 890-654-1

Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

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.

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

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

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)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit
PRES Presumptive

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

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5/13/2021

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Case Narrative

Client: WPX Energy Production LLC Project/Site: North Brushy Draw Fed 35

Job ID: 890-654-1

Job ID: 890-654-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-654-1

Receipt

The samples were received on 5/11/2021 8:55 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 time was 2.8°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FS01 (890-654-1), FS02 (890-654-2), FS03 (890-654-3), FS04 (890-654-4), FS05 (890-654-5), FS06 (890-654-6), SW01 (890-654-7), SW02 (890-654-8), SW03 (890-654-9) and SW04 (890-654-10).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS06 (890-654-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

HPLC/IC

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

1

Job ID: 890-654-1

Client: WPX Energy Production LLC Project/Site: North Brushy Draw Fed 35

Client Sample ID: FS01

Date Collected: 05/10/21 16:30 Date Received: 05/11/21 08:55

Sample Depth: - 4

Lab Sample ID: 890-654-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/11/21 10:41	05/11/21 20:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/11/21 10:41	05/11/21 20:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/11/21 10:41	05/11/21 20:18	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/11/21 10:41	05/11/21 20:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/11/21 10:41	05/11/21 20:18	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/11/21 10:41	05/11/21 20:18	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		05/11/21 10:41	05/11/21 20:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				05/11/21 10:41	05/11/21 20:18	1
1,4-Difluorobenzene (Surr)	108		70 - 130				05/11/21 10:41	05/11/21 20:18	1

A I d -	D14	O1161	D.	ME	1114	_	D	A II	D:: F
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		05/12/21 07:52	05/12/21 14:56	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		05/12/21 07:52	05/12/21 14:56	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/12/21 07:52	05/12/21 14:56	1
Total TPH	<49.9	U	49.9		mg/Kg		05/12/21 07:52	05/12/21 14:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				05/12/21 07:52	05/12/21 14:56	1
o-Terphenyl	91		70 - 130				05/12/21 07:52	05/12/21 14:56	1

	natography - S	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		4.95		mg/Kg			05/12/21 22:36	1

Client Sample ID: FS02 Lab Sample ID: 890-654-2 Date Collected: 05/10/21 16:35 **Matrix: Solid**

Date Received: 05/11/21 08:55

Sample Depth: - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/11/21 10:41	05/11/21 20:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/11/21 10:41	05/11/21 20:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/11/21 10:41	05/11/21 20:39	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/11/21 10:41	05/11/21 20:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/11/21 10:41	05/11/21 20:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/11/21 10:41	05/11/21 20:39	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		05/11/21 10:41	05/11/21 20:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				05/11/21 10:41	05/11/21 20:39	1
1,4-Difluorobenzene (Surr)	113		70 - 130				05/11/21 10:41	05/11/21 20:39	1

Client Sample Results

Client: WPX Energy Production LLC Project/Site: North Brushy Draw Fed 35

Job ID: 890-654-1

Client Sample ID: FS02

Date Collected: 05/10/21 16:35 Date Received: 05/11/21 08:55

Sample Depth: - 4

Lab Sample ID: 890-654-2

Matrix: Solid

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/12/21 07:52	05/12/21 15:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/12/21 07:52	05/12/21 15:16	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/12/21 07:52	05/12/21 15:16	1
Total TPH	<49.8	U	49.8		mg/Kg		05/12/21 07:52	05/12/21 15:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	97		70 - 130				05/12/21 07:52	05/12/21 15:16	
o-Terphenyl	94		70 - 130				05/12/21 07:52	05/12/21 15:16	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	272		5.04		mg/Kg			05/12/21 22:52	1

Client Sample ID: FS03 Lab Sample ID: 890-654-3 Matrix: Solid

Date Collected: 05/10/21 16:40 Date Received: 05/11/21 08:55

Sample Depth: - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 21:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 21:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 21:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/11/21 10:41	05/11/21 21:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 21:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/11/21 10:41	05/11/21 21:00	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		05/11/21 10:41	05/11/21 21:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				05/11/21 10:41	05/11/21 21:00	1
1,4-Difluorobenzene (Surr)	112		70 ₋ 130				05/11/21 10:41	05/11/21 21:00	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/12/21 07:52	05/12/21 15:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/12/21 07:52	05/12/21 15:57	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/12/21 07:52	05/12/21 15:57	1
Total TPH	<49.8	U	49.8		mg/Kg		05/12/21 07:52	05/12/21 15:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				05/12/21 07:52	05/12/21 15:57	1
o-Terphenyl	101		70 - 130				05/12/21 07:52	05/12/21 15:57	1

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.3		5.05		mg/Kg			05/12/21 22:57	1

Job ID: 890-654-1

Client: WPX Energy Production LLC Project/Site: North Brushy Draw Fed 35

Client Sample ID: FS04

Date Collected: 05/10/21 16:45 Date Received: 05/11/21 08:55

Sample Depth: - 4

Lab Sample ID: 890-654-4

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 21:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 21:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 21:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/11/21 10:41	05/11/21 21:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 21:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/11/21 10:41	05/11/21 21:21	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/11/21 10:41	05/11/21 21:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				05/11/21 10:41	05/11/21 21:21	1
1,4-Difluorobenzene (Surr)	114		70 - 130				05/11/21 10:41	05/11/21 21:21	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier Dil Fac RLMDL Unit Prepared Analyzed <50.1 U 05/12/21 07:52 05/12/21 16:18 Gasoline Range Organics 50.1 mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 68.1 50.1 mg/Kg 05/12/21 07:52 05/12/21 16:18 C10-C28) OII Range Organics (Over C28-C36) 05/12/21 07:52 <50.1 U 50.1 mg/Kg 05/12/21 16:18 **Total TPH** 68.1 50.1 mg/Kg 05/12/21 07:52 05/12/21 16:18 Surrogate Qualifier Limits Prepared Analyzed Dil Fac %Recovery

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Method: 300.0 - Anions, Ion Chromatog	raphy - Soluble						
o-Terphenyl	94	70 - 130			05/12/21 07:52	05/12/21 16:18	1
1-Chlorooctane	101	70 - 130			05/12/21 07:52	05/12/21 16:18	1

 Chloride
 72.9
 4.97
 mg/Kg
 05/12/21 23:14
 1

 Client Sample ID: FS05
 Lab Sample ID: 890-654-5

Date Collected: 05/10/21 16:50 Date Received: 05/11/21 08:55

Sample Depth: - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00293		0.00200		mg/Kg		05/11/21 10:41	05/11/21 21:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 21:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 21:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/11/21 10:41	05/11/21 21:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 21:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/11/21 10:41	05/11/21 21:41	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		05/11/21 10:41	05/11/21 21:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				05/11/21 10:41	05/11/21 21:41	1
1,4-Difluorobenzene (Surr)	120		70 ₋ 130				05/11/21 10:41	05/11/21 21:41	1

Eurofins Xenco, Carlsbad

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-654-5

Job ID: 890-654-1

Client: WPX Energy Production LLC Project/Site: North Brushy Draw Fed 35

Client Sample ID: FS05

Date Collected: 05/10/21 16:50 Date Received: 05/11/21 08:55

Sample Depth: - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		05/12/21 07:52	05/12/21 16:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		05/12/21 07:52	05/12/21 16:39	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/12/21 07:52	05/12/21 16:39	1
Total TPH	<49.9	U	49.9		mg/Kg		05/12/21 07:52	05/12/21 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				05/12/21 07:52	05/12/21 16:39	1
o-Terphenyl	94		70 - 130				05/12/21 07:52	05/12/21 16:39	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	443		4.99		mg/Kg			05/12/21 23:19	

Client Sample ID: FS06 Lab Sample ID: 890-654-6 Date Collected: 05/10/21 16:55 Matrix: Solid

Date Received: 05/11/21 08:55

Sample Depth: - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 22:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 22:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 22:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/11/21 10:41	05/11/21 22:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 22:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/11/21 10:41	05/11/21 22:02	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/11/21 10:41	05/11/21 22:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				05/11/21 10:41	05/11/21 22:02	1
1,4-Difluorobenzene (Surr)	102		70 - 130				05/11/21 10:41	05/11/21 22:02	1
Method: 8015B NM - Diesel Ranç Analyte	Result	RO) (GC) Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Mothod: 8015B NM - Diosol Pane	no Organice (D	PO) (GC)							
Analyte Gasoline Range Organics			RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 05/12/21 08:24	Analyzed 05/12/21 15:16	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result 473	Qualifier	49.9	MDL	mg/Kg	<u>D</u>	05/12/21 08:24	05/12/21 15:16	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier		MDL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result 473	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	05/12/21 08:24	05/12/21 15:16	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 473 <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	05/12/21 08:24 05/12/21 08:24	05/12/21 15:16 05/12/21 15:16	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 473 <49.9 <49.9	Qualifier U	49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/12/21 08:24 05/12/21 08:24 05/12/21 08:24	05/12/21 15:16 05/12/21 15:16 05/12/21 15:16	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result 473 <49.9 <49.9 473	Qualifier U	49.9 49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 05/12/21 08:24	05/12/21 15:16 05/12/21 15:16 05/12/21 15:16 05/12/21 15:16	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 473	Qualifier U	49.9 49.9 49.9 49.9 <i>Limits</i>	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 Prepared	05/12/21 15:16 05/12/21 15:16 05/12/21 15:16 05/12/21 15:16 Analyzed	1 1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result 473	Qualifier U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 Prepared 05/12/21 08:24	05/12/21 15:16 05/12/21 15:16 05/12/21 15:16 05/12/21 15:16 Analyzed 05/12/21 15:16	1 1 1 1 1 1 Dil Fac
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 473	Qualifier 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>	05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 Prepared 05/12/21 08:24	05/12/21 15:16 05/12/21 15:16 05/12/21 15:16 05/12/21 15:16 Analyzed 05/12/21 15:16	1 1 1 1 1 Dil Fac

Matrix: Solid

Lab Sample ID: 890-654-7

Job ID: 890-654-1

Client: WPX Energy Production LLC Project/Site: North Brushy Draw Fed 35

Client Sample ID: SW01

Date Collected: 05/10/21 17:00 Date Received: 05/11/21 08:55

Sample Depth: - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/11/21 12:27	05/12/21 08:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/11/21 12:27	05/12/21 08:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/11/21 12:27	05/12/21 08:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/11/21 12:27	05/12/21 08:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/11/21 12:27	05/12/21 08:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/11/21 12:27	05/12/21 08:05	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/11/21 12:27	05/12/21 08:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				05/11/21 12:27	05/12/21 08:05	1
1,4-Difluorobenzene (Surr)	122		70 - 130				05/11/21 12:27	05/12/21 08:05	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/12/21 08:24	05/12/21 15:57	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/12/21 08:24	05/12/21 15:57	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/21 08:24	05/12/21 15:57	1
Total TPH	<50.0	U	50.0		mg/Kg		05/12/21 08:24	05/12/21 15:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				05/12/21 08:24	05/12/21 15:57	1
o-Terphenyl	79		70 - 130				05/12/21 08:24	05/12/21 15:57	1

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	277		5.00		mg/Kg			05/12/21 23:30	1

Client Sample ID: SW02

Date Collected: 05/10/21 17:05 Date Received: 05/11/21 08:55

Sample Depth: - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/11/21 12:27	05/12/21 08:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/11/21 12:27	05/12/21 08:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/11/21 12:27	05/12/21 08:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/11/21 12:27	05/12/21 08:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/11/21 12:27	05/12/21 08:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/11/21 12:27	05/12/21 08:26	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/11/21 12:27	05/12/21 08:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				05/11/21 12:27	05/12/21 08:26	1
1,4-Difluorobenzene (Surr)	113		70 ₋ 130				05/11/21 12:27	05/12/21 08:26	1

Lab Sample ID: 890-654-8

Matrix: Solid

Matrix: Solid

Job ID: 890-654-1

Client: WPX Energy Production LLC Project/Site: North Brushy Draw Fed 35

Client Sample ID: SW02

Date Collected: 05/10/21 17:05 Date Received: 05/11/21 08:55

Sample Depth: - 2

Lab Sample ID: 890-654-8

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL D Dil Fac Unit Prepared Analyzed <49.8 U 49.8 05/12/21 08:24 05/12/21 16:18 Gasoline Range Organics mg/Kg (GRO)-C6-C10 05/12/21 08:24 05/12/21 16:18 Diesel Range Organics (Over <49.8 U 49.8 mg/Kg C10-C28) mg/Kg OII Range Organics (Over C28-C36) <49.8 U 49.8 05/12/21 08:24 05/12/21 16:18 Total TPH <49.8 U 49.8 mg/Kg 05/12/21 08:24 05/12/21 16:18 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 79 70 - 130 05/12/21 08:24 05/12/21 16:18 82 70 - 130 05/12/21 08:24 o-Terphenyl 05/12/21 16:18 Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 70.4 5.00 mg/Kg 05/12/21 23:35

Client Sample ID: SW03 Lab Sample ID: 890-654-9

Date Collected: 05/10/21 17:10 Date Received: 05/11/21 08:55

Sample Depth: - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/11/21 12:27	05/12/21 08:47	1
Toluene	< 0.00199	U	0.00199		mg/Kg		05/11/21 12:27	05/12/21 08:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/11/21 12:27	05/12/21 08:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/11/21 12:27	05/12/21 08:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/11/21 12:27	05/12/21 08:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/11/21 12:27	05/12/21 08:47	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/11/21 12:27	05/12/21 08:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				05/11/21 12:27	05/12/21 08:47	1
1,4-Difluorobenzene (Surr)	112		70 - 130				05/11/21 12:27	05/12/21 08:47	1
Method: 8015B NM - Diesel Ranç Analyte	• • •	RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rand	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier		MDL		<u>D</u>			
Analyte Gasoline Range Organics	• • •	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 05/12/21 08:24	Analyzed 05/12/21 16:39	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U		MDL		<u>D</u>			Dil Fac
Analyte		Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	05/12/21 08:24	05/12/21 16:39	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	05/12/21 08:24	05/12/21 16:39	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U U	49.9	MDL	mg/Kg mg/Kg	<u>D</u>	05/12/21 08:24 05/12/21 08:24	05/12/21 16:39 05/12/21 16:39	1 1
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>	05/12/21 08:24 05/12/21 08:24 05/12/21 08:24	05/12/21 16:39 05/12/21 16:39 05/12/21 16:39	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result	Qualifier U U U U	49.9 49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 05/12/21 08:24	05/12/21 16:39 05/12/21 16:39 05/12/21 16:39 05/12/21 16:39	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	Result	Qualifier U U U U	49.9 49.9 49.9 49.9 <i>Limits</i>	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 Prepared	05/12/21 16:39 05/12/21 16:39 05/12/21 16:39 05/12/21 16:39 Analyzed	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	49.9 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 Prepared 05/12/21 08:24	05/12/21 16:39 05/12/21 16:39 05/12/21 16:39 05/12/21 16:39 Analyzed 05/12/21 16:39	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>	05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 Prepared 05/12/21 08:24	05/12/21 16:39 05/12/21 16:39 05/12/21 16:39 05/12/21 16:39 Analyzed 05/12/21 16:39	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample Results

Client: WPX Energy Production LLC

Job ID: 890-654-1

Project/Site: North Brushy Draw Fed 35

Lab Sample ID: 890-654-10

Matrix: Solid

Date Collected: 05/10/21 17:10 Date Received: 05/11/21 08:55

Client Sample ID: SW04

Sample Depth: - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/11/21 12:27	05/12/21 09:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/11/21 12:27	05/12/21 09:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/11/21 12:27	05/12/21 09:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/11/21 12:27	05/12/21 09:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/11/21 12:27	05/12/21 09:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/11/21 12:27	05/12/21 09:07	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		05/11/21 12:27	05/12/21 09:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				05/11/21 12:27	05/12/21 09:07	1
1,4-Difluorobenzene (Surr)	108		70 - 130				05/11/21 12:27	05/12/21 09:07	1
: Method: 8015B NM - Diesel Ranç	, ,	, , ,							
Mathada 0045D NM - Diagal Dawa	Oi (D)	DO) (OO)							
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	
Analyte Gasoline Range Organics	, ,	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 05/12/21 08:24	Analyzed 05/12/21 16:59	
Analyte	Result	Qualifier U		MDL		<u>D</u>	<u>.</u>		1
Analyte Gasoline Range Organics (GRO)-C6-C10	Result<50.0	Qualifier U	50.0	MDL	mg/Kg	<u>D</u>	05/12/21 08:24	05/12/21 16:59	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result<50.0	Qualifier U	50.0	MDL	mg/Kg	<u>D</u>	05/12/21 08:24	05/12/21 16:59	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U U	50.0	MDL	mg/Kg	<u>D</u>	05/12/21 08:24 05/12/21 08:24	05/12/21 16:59 05/12/21 16:59	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U	50.0 50.0 50.0	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/12/21 08:24 05/12/21 08:24 05/12/21 08:24	05/12/21 16:59 05/12/21 16:59 05/12/21 16:59	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result	Qualifier U U U	50.0 50.0 50.0 50.0	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 05/12/21 08:24	05/12/21 16:59 05/12/21 16:59 05/12/21 16:59 05/12/21 16:59	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	Result	Qualifier U U U	50.0 50.0 50.0 50.0 Limits	MDL	mg/Kg mg/Kg mg/Kg	<u> </u>	05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 Prepared	05/12/21 16:59 05/12/21 16:59 05/12/21 16:59 05/12/21 16:59 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	50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 Prepared 05/12/21 08:24	05/12/21 16:59 05/12/21 16:59 05/12/21 16:59 05/12/21 16:59 Analyzed 05/12/21 16:59	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	50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 05/12/21 08:24 Prepared 05/12/21 08:24	05/12/21 16:59 05/12/21 16:59 05/12/21 16:59 05/12/21 16:59 Analyzed 05/12/21 16:59	Dil Fac 1 1 1 Dil Fac 1 Dil Fac

Surrogate Summary

Client: WPX Energy Production LLC Job ID: 890-654-1

Project/Site: North Brushy Draw Fed 35

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-654-1	FS01	102	108	
890-654-2	FS02	103	113	
890-654-3	FS03	104	112	
890-654-4	FS04	98	114	
890-654-5	FS05	105	120	
890-654-6	FS06	106	102	
890-654-7	SW01	103	122	
890-654-8	SW02	95	113	
890-654-9	SW03	99	112	
890-654-10	SW04	87	108	
LCS 880-2964/1-A	Lab Control Sample	95	106	
LCS 880-2976/1-A	Lab Control Sample	97	112	
LCSD 880-2964/2-A	Lab Control Sample Dup	94	103	
LCSD 880-2976/2-A	Lab Control Sample Dup	95	109	
MB 880-2964/5-A	Method Blank	105	101	
IVID 000-2304/3-A	Method Blank	112	102	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Reco
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-654-1	FS01	95	91	
890-654-2	FS02	97	94	
890-654-3	FS03	105	101	
890-654-4	FS04	101	94	
890-654-5	FS05	99	94	
890-654-6	FS06	74	81	
890-654-7	SW01	73	79	
890-654-8	SW02	79	82	
890-654-9	SW03	74	79	
890-654-10	SW04	72	79	
LCS 880-3008/2-A	Lab Control Sample	111	110	
LCS 880-3010/2-A	Lab Control Sample	115	127	
LCSD 880-3008/3-A	Lab Control Sample Dup	115	110	
LCSD 880-3010/3-A	Lab Control Sample Dup	98	106	
MB 880-3008/1-A	Method Blank	106	111	
MB 880-3010/1-A	Method Blank	90	103	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WPX Energy Production LLC Job ID: 890-654-1

Project/Site: North Brushy Draw Fed 35

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2964/5-A

Analysis Batch: 2963

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2964

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 14:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 14:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 14:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/11/21 10:41	05/11/21 14:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/11/21 10:41	05/11/21 14:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/11/21 10:41	05/11/21 14:02	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/11/21 10:41	05/11/21 14:02	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepar	red	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	05/11/21	10:41	05/11/21 14:02	1
1,4-Difluorobenzene (Surr)	101		70 - 130	05/11/21	10:41	05/11/21 14:02	1

Lab Sample ID: LCS 880-2964/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 2963

Spike LCS LCS

Prep Type: Total/NA Prep Batch: 2964

%Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09433 mg/Kg 94 70 - 130 Toluene 0.100 0.1012 mg/Kg 101 70 - 130 0.100 0.09366 70 - 130 Ethylbenzene mg/Kg 94 0.200 0.1893 70 - 130 m-Xylene & p-Xylene mg/Kg 95 o-Xylene 0.100 0.09120 mg/Kg 91 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	95	70 - 130
1.4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-2964/2-A

Matrix: Solid

Analysis Batch: 2963

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2964

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08611		mg/Kg		86	70 - 130	9	35	
Toluene	0.100	0.1013		mg/Kg		101	70 - 130	0	35	
Ethylbenzene	0.100	0.09533		mg/Kg		95	70 - 130	2	35	
m-Xylene & p-Xylene	0.200	0.1925		mg/Kg		96	70 - 130	2	35	
o-Xylene	0.100	0.09504		mg/Kg		95	70 - 130	4	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-2976/5-A

Matrix: Solid

Analysis Batch: 2963

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2976

MB MB

Analyte	Result Qua	lifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	0.00200	mg/Kg	_	05/11/21 12:27	05/12/21 01:07	1

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Client: WPX Energy Production LLC Project/Site: North Brushy Draw Fed 35 Job ID: 890-654-1

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

Lab Sample ID: MB 880-2976/5-A

Matrix: Solid

Analysis Batch: 2963

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2976

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		05/11/21 12:27	05/12/21 01:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/11/21 12:27	05/12/21 01:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/11/21 12:27	05/12/21 01:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/11/21 12:27	05/12/21 01:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/11/21 12:27	05/12/21 01:07	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/11/21 12:27	05/12/21 01:07	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112	70 - 130	05/11/21 12:27	05/12/21 01:07	1
1,4-Difluorobenzene (Surr)	102	70 - 130	05/11/21 12:27	05/12/21 01:07	1

Lab Sample ID: LCS 880-2976/1-A

Matrix: Solid

Analysis Batch: 2963

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 2976

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09117		mg/Kg		91	70 - 130	
Toluene	0.100	0.09628		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.09162		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	0.200	0.1853		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.09037		mg/Kg		90	70 - 130	

LCS LCS

Surrogate	%Recovery Qu	ıalifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-2976/2-A

Matrix: Solid

Analysis Batch: 2963

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 2976

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09295		mg/Kg		93	70 - 130	2	35
Toluene	0.100	0.09750		mg/Kg		97	70 - 130	1	35
Ethylbenzene	0.100	0.09289		mg/Kg		93	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1793		mg/Kg		90	70 - 130	3	35
o-Xylene	0.100	0.09142		mg/Kg		91	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1 4-Difluorobenzene (Surr)	109		70 - 130

Client: WPX Energy Production LLC Project/Site: North Brushy Draw Fed 35

Job ID: 890-654-1

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

Lab Sample ID: MB 880-3008/1-A

Matrix: Solid Analysis Batch: 3004 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3008

	MR	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/12/21 07:52	05/12/21 10:29	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		05/12/21 07:52	05/12/21 10:29	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/21 07:52	05/12/21 10:29	1
Total TPH	<50.0	U	50.0		mg/Kg		05/12/21 07:52	05/12/21 10:29	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	05/12/21 07:52	05/12/21 10:29	1
o-Terphenyl	111		70 - 130	05/12/21 07:52	05/12/21 10:29	1

Lab Sample ID: LCS 880-3008/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 3004

Prep Batch: 3008 Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 963.8 96 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1152 mg/Kg 115 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	111	70 - 130
o-Terphenyl	110	70 - 130

Lab Sample ID: LCSD 880-3008/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 3004

Prep Type: Total/NA Prep Batch: 3008

LCSD LCSD RPD Spike %Rec. Added Analyte Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 996.0 100 70 - 13020 Gasoline Range Organics mg/Kg 3 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1142 mg/Kg 114 70 - 13020 C10-C28)

Total TPH

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	115	70 _ 130
o-Terphenyl	110	70 - 130

Lab Sample ID: MB 880-3010/1-A Client Sample ID: Method Blank Matrix: Solid

Analysis Batch: 3006

MB MB

<50.0 U

Analyte Result Qualifier RL Dil Fac MDL Unit D Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 05/12/21 08:24 05/12/21 10:29 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 05/12/21 08:24 05/12/21 10:29 C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 05/12/21 08:24 05/12/21 10:29

50.0

mg/Kg

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05/12/21 10:29

05/12/21 08:24

Prep Type: Total/NA

Prep Batch: 3010

Prep Batch: 3010

Prep Type: Total/NA

QC Sample Results

Client: WPX Energy Production LLC Job ID: 890-654-1

Project/Site: North Brushy Draw Fed 35

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

	MB ME	В			
Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90	70 - 130	05/12/21 08:24	05/12/21 10:29	1
o-Terphenyl	103	70 - 130	05/12/21 08:24	05/12/21 10:29	1

Lab Sample ID: LCS 880-3010/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 3006

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 917.5 92 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1080 mg/Kg 108 70 - 130

C10-C28)

	LUS LUS	
Surrogate	%Recovery Qua	lifier Limits
1-Chlorooctane	115	70 - 130
o-Terphenyl	127	70 - 130

Lab Sample ID: LCSD 880-3010/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 3006

Prep Batch: 3010 RPD LCSD LCSD Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 Gasoline Range Organics 803.6 mg/Kg 80 70 - 13013 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1044 104 mg/Kg 70 - 1303 20

C10-C28)

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

мв мв

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2965/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3025

Analyte	Result	Qualifier	RL	MDL	Unit	D	P	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg				05/12/21 18:28	1

Lab Sample ID: LCS 880-2965/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3025

	Spike	LCS LCS	5			%Rec.	
Analyte	Added	Result Qua	alifier Unit	D	%Rec	Limits	
Chloride	250	232.2	mg/Kg	_	93	90 - 110	

Lab Sample ID: LCSD 880-2965/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3025

LCSD LCSD RPD Spike %Rec. Added Result Qualifier Analyte Unit D %Rec Limits RPD Limit Chloride 250 230.0 92 90 - 110 mg/Kg

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5/13/2021

QC Sample Results

Client: WPX Energy Production LLC Job ID: 890-654-1

Project/Site: North Brushy Draw Fed 35

Method: 300.0 - Anions, Ion Chromatography

Client Sample ID: FS01 Lab Sample ID: 890-654-1 MS **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3025

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	114		248	355.5		ma/Ka		98	90 - 110		_

Lab Sample ID: 890-654-1 MSD **Client Sample ID: FS01** Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 3025

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	114		248	364.8		mg/Kg		101	90 - 110	3	20

Client: WPX Energy Production LLC
Project/Site: North Brushy Draw Fed 35

Job ID: 890-654-1

GC VOA

Analysis Batch: 2963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-654-1	FS01	Total/NA	Solid	8021B	2964
890-654-2	FS02	Total/NA	Solid	8021B	2964
890-654-3	FS03	Total/NA	Solid	8021B	2964
890-654-4	FS04	Total/NA	Solid	8021B	2964
890-654-5	FS05	Total/NA	Solid	8021B	2964
890-654-6	FS06	Total/NA	Solid	8021B	2964
890-654-7	SW01	Total/NA	Solid	8021B	2976
890-654-8	SW02	Total/NA	Solid	8021B	2976
890-654-9	SW03	Total/NA	Solid	8021B	2976
890-654-10	SW04	Total/NA	Solid	8021B	2976
MB 880-2964/5-A	Method Blank	Total/NA	Solid	8021B	2964
MB 880-2976/5-A	Method Blank	Total/NA	Solid	8021B	2976
LCS 880-2964/1-A	Lab Control Sample	Total/NA	Solid	8021B	2964
LCS 880-2976/1-A	Lab Control Sample	Total/NA	Solid	8021B	2976
LCSD 880-2964/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2964
LCSD 880-2976/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2976

Prep Batch: 2964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-654-1	FS01	Total/NA	Solid	5035	
890-654-2	FS02	Total/NA	Solid	5035	
890-654-3	FS03	Total/NA	Solid	5035	
890-654-4	FS04	Total/NA	Solid	5035	
890-654-5	FS05	Total/NA	Solid	5035	
890-654-6	FS06	Total/NA	Solid	5035	
MB 880-2964/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2964/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2964/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 2976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-654-7	SW01	Total/NA	Solid	5035	
890-654-8	SW02	Total/NA	Solid	5035	
890-654-9	SW03	Total/NA	Solid	5035	
890-654-10	SW04	Total/NA	Solid	5035	
MB 880-2976/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2976/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2976/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 3004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-654-1	FS01	Total/NA	Solid	8015B NM	3008
890-654-2	FS02	Total/NA	Solid	8015B NM	3008
890-654-3	FS03	Total/NA	Solid	8015B NM	3008
890-654-4	FS04	Total/NA	Solid	8015B NM	3008
890-654-5	FS05	Total/NA	Solid	8015B NM	3008
MB 880-3008/1-A	Method Blank	Total/NA	Solid	8015B NM	3008
LCS 880-3008/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3008
LCSD 880-3008/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3008

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Client: WPX Energy Production LLC
Project/Site: North Brushy Draw Fed 35

Job ID: 890-654-1

GC Semi VOA

Analysis Batch: 3006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-654-6	FS06	Total/NA	Solid	8015B NM	3010
890-654-7	SW01	Total/NA	Solid	8015B NM	3010
890-654-8	SW02	Total/NA	Solid	8015B NM	3010
890-654-9	SW03	Total/NA	Solid	8015B NM	3010
890-654-10	SW04	Total/NA	Solid	8015B NM	3010
MB 880-3010/1-A	Method Blank	Total/NA	Solid	8015B NM	3010
LCS 880-3010/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3010
LCSD 880-3010/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3010

Prep Batch: 3008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-654-1	FS01	Total/NA	Solid	8015NM Prep	
890-654-2	FS02	Total/NA	Solid	8015NM Prep	
890-654-3	FS03	Total/NA	Solid	8015NM Prep	
890-654-4	FS04	Total/NA	Solid	8015NM Prep	
890-654-5	FS05	Total/NA	Solid	8015NM Prep	
MB 880-3008/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3008/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3008/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 3010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-654-6	FS06	Total/NA	Solid	8015NM Prep	
890-654-7	SW01	Total/NA	Solid	8015NM Prep	
890-654-8	SW02	Total/NA	Solid	8015NM Prep	
890-654-9	SW03	Total/NA	Solid	8015NM Prep	
890-654-10	SW04	Total/NA	Solid	8015NM Prep	
MB 880-3010/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3010/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3010/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 2965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-654-1	FS01	Soluble	Solid	DI Leach	
890-654-2	FS02	Soluble	Solid	DI Leach	
890-654-3	FS03	Soluble	Solid	DI Leach	
890-654-4	FS04	Soluble	Solid	DI Leach	
890-654-5	FS05	Soluble	Solid	DI Leach	
890-654-6	FS06	Soluble	Solid	DI Leach	
890-654-7	SW01	Soluble	Solid	DI Leach	
890-654-8	SW02	Soluble	Solid	DI Leach	
890-654-9	SW03	Soluble	Solid	DI Leach	
890-654-10	SW04	Soluble	Solid	DI Leach	
MB 880-2965/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2965/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2965/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-654-1 MS	FS01	Soluble	Solid	DI Leach	
890-654-1 MSD	FS01	Soluble	Solid	DI Leach	

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Client: WPX Energy Production LLC
Project/Site: North Brushy Draw Fed 35

Job ID: 890-654-1

HPLC/IC

Analysis Batch: 3025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-654-1	FS01	Soluble	Solid	300.0	2965
890-654-2	FS02	Soluble	Solid	300.0	2965
890-654-3	FS03	Soluble	Solid	300.0	2965
890-654-4	FS04	Soluble	Solid	300.0	2965
890-654-5	FS05	Soluble	Solid	300.0	2965
890-654-6	FS06	Soluble	Solid	300.0	2965
890-654-7	SW01	Soluble	Solid	300.0	2965
890-654-8	SW02	Soluble	Solid	300.0	2965
890-654-9	SW03	Soluble	Solid	300.0	2965
890-654-10	SW04	Soluble	Solid	300.0	2965
MB 880-2965/1-A	Method Blank	Soluble	Solid	300.0	2965
LCS 880-2965/2-A	Lab Control Sample	Soluble	Solid	300.0	2965
LCSD 880-2965/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2965
890-654-1 MS	FS01	Soluble	Solid	300.0	2965
890-654-1 MSD	FS01	Soluble	Solid	300.0	2965

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Job ID: 890-654-1

Client: WPX Energy Production LLC Project/Site: North Brushy Draw Fed 35

Client Sample ID: FS01

Lab Sample ID: 890-654-1

Matrix: Solid

Date Collected: 05/10/21 16:30 Date Received: 05/11/21 08:55

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	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2964	05/11/21 10:41	KL	XM
Total/NA	Analysis	8021B		1	2963	05/11/21 20:18	KL	XM
Total/NA	Prep	8015NM Prep			3008	05/12/21 07:52	AM	XM
Total/NA	Analysis	8015B NM		1	3004	05/12/21 14:56	AJ	XM
Soluble	Leach	DI Leach			2965	05/11/21 10:42	CH	XM
Soluble	Analysis	300.0		1	3025	05/12/21 22:36	WP	XM

Client Sample ID: FS02

Date Collected: 05/10/21 16:35 Date Received: 05/11/21 08:55 Lab Sample ID: 890-654-2

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2964	05/11/21 10:41	KL	XM
Total/NA	Analysis	8021B		1	2963	05/11/21 20:39	KL	XM
Total/NA	Prep	8015NM Prep			3008	05/12/21 07:52	AM	XM
Total/NA	Analysis	8015B NM		1	3004	05/12/21 15:16	AJ	XM
Soluble	Leach	DI Leach			2965	05/11/21 10:42	CH	XM
Soluble	Analysis	300.0		1	3025	05/12/21 22:52	WP	XM

Client Sample ID: FS03

Date Collected: 05/10/21 16:40 Date Received: 05/11/21 08:55

Lab Sample ID: 890-654-3

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2964	05/11/21 10:41	KL	XM
Total/NA	Analysis	8021B		1	2963	05/11/21 21:00	KL	XM
Total/NA	Prep	8015NM Prep			3008	05/12/21 07:52	AM	XM
Total/NA	Analysis	8015B NM		1	3004	05/12/21 15:57	AJ	XM
Soluble	Leach	DI Leach			2965	05/11/21 10:42	CH	XM
Soluble	Analysis	300.0		1	3025	05/12/21 22:57	WP	XM

Client Sample ID: FS04

Date Collected: 05/10/21 16:45

Date Received: 05/11/21 08:55

Lab Sample ID: 890-654-4

Matrix: Solid

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2964	05/11/21 10:41	KL	XM
Total/NA	Analysis	8021B		1	2963	05/11/21 21:21	KL	XM
Total/NA	Prep	8015NM Prep			3008	05/12/21 07:52	AM	XM
Total/NA	Analysis	8015B NM		1	3004	05/12/21 16:18	AJ	XM
Soluble	Leach	DI Leach			2965	05/11/21 10:42	СН	XM
Soluble	Analysis	300.0		1	3025	05/12/21 23:14	WP	XM

Job ID: 890-654-1

Client: WPX Energy Production LLC Project/Site: North Brushy Draw Fed 35

Client Sample ID: FS05

Lab Sample ID: 890-654-5

Matrix: Solid

Date Collected: 05/10/21 16:50 Date Received: 05/11/21 08:55

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2964	05/11/21 10:41	KL	XM
Total/NA	Analysis	8021B		1	2963	05/11/21 21:41	KL	XM
Total/NA	Prep	8015NM Prep			3008	05/12/21 07:52	AM	XM
Total/NA	Analysis	8015B NM		1	3004	05/12/21 16:39	AJ	XM
Soluble	Leach	DI Leach			2965	05/11/21 10:42	СН	XM
Soluble	Analysis	300.0		1	3025	05/12/21 23:19	WP	XM

Client Sample ID: FS06 Lab Sample ID: 890-654-6 Date Collected: 05/10/21 16:55

Date Received: 05/11/21 08:55

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2964	05/11/21 10:41	KL	XM
Total/NA	Analysis	8021B		1	2963	05/11/21 22:02	KL	XM
Total/NA	Prep	8015NM Prep			3010	05/12/21 08:24	DM	XM
Total/NA	Analysis	8015B NM		1	3006	05/12/21 15:16	AJ	XM
Soluble	Leach	DI Leach			2965	05/11/21 10:42	CH	XM
Soluble	Analysis	300.0		1	3025	05/12/21 23:24	WP	XM

Lab Sample ID: 890-654-7 **Client Sample ID: SW01**

Date Collected: 05/10/21 17:00 **Matrix: Solid** Date Received: 05/11/21 08:55

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2976	05/11/21 12:27	KL	XM
Total/NA	Analysis	8021B		1	2963	05/12/21 08:05	KL	XM
Total/NA	Prep	8015NM Prep			3010	05/12/21 08:24	DM	XM
Total/NA	Analysis	8015B NM		1	3006	05/12/21 15:57	AJ	XM
Soluble	Leach	DI Leach			2965	05/11/21 10:42	СН	XM
Soluble	Analysis	300.0		1	3025	05/12/21 23:30	WP	XM

Client Sample ID: SW02 Lab Sample ID: 890-654-8

Date Collected: 05/10/21 17:05 **Matrix: Solid** Date Received: 05/11/21 08:55

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2976	05/11/21 12:27	KL	XM
Total/NA	Analysis	8021B		1	2963	05/12/21 08:26	KL	XM
Total/NA	Prep	8015NM Prep			3010	05/12/21 08:24	DM	XM
Total/NA	Analysis	8015B NM		1	3006	05/12/21 16:18	AJ	XM
Soluble	Leach	DI Leach			2965	05/11/21 10:42	СН	XM
Soluble	Analysis	300.0		1	3025	05/12/21 23:35	WP	XM

Lab Chronicle

Client: WPX Energy Production LLC

Project/Site: North Brushy Draw Fed 35

Client Sample ID: SW03

Date Collected: 05/10/21 17:10

Date Received: 05/11/21 08:55

Lab Sample ID: 890-654-9

Matrix: Solid

Job ID: 890-654-1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2976	05/11/21 12:27	KL	XM
Total/NA	Analysis	8021B		1	2963	05/12/21 08:47	KL	XM
Total/NA	Prep	8015NM Prep			3010	05/12/21 08:24	DM	XM
Total/NA	Analysis	8015B NM		1	3006	05/12/21 16:39	AJ	XM
Soluble	Leach	DI Leach			2965	05/11/21 10:42	CH	XM
Soluble	Analysis	300.0		1	3025	05/12/21 23:40	WP	XM

Client Sample ID: SW04

Date Collected: 05/10/21 17:10 Date Received: 05/11/21 08:55

Lab Sample ID: 890-654-10 **Matrix: Solid**

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2976	05/11/21 12:27	KL	XM
Total/NA	Analysis	8021B		1	2963	05/12/21 09:07	KL	XM
Total/NA	Prep	8015NM Prep			3010	05/12/21 08:24	DM	XM
Total/NA	Analysis	8015B NM		1	3006	05/12/21 16:59	AJ	XM
Soluble	Leach	DI Leach			2965	05/11/21 10:42	CH	XM
Soluble	Analysis	300.0		1	3025	05/12/21 23:46	WP	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: WPX Energy Production LLC Job ID: 890-654-1

Page 24 of 30

Project/Site: North Brushy Draw Fed 35

Laboratory: Eurofins Xenco, Midland

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

Authority	F	Program	Identification Number	Expiration Date
Texas	1	NELAP	T104704400-20-21	06-30-21
The following analytes a the agency does not off	• •	out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Total BTEX	

Method Summary

Client: WPX Energy Production LLC Project/Site: North Brushy Draw Fed 35

Job ID: 890-654-1

90-654-1

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: North Brushy Draw Fed 35 Job ID: 890-654-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-654-1	FS01	Solid	05/10/21 16:30	05/11/21 08:55	- 4
890-654-2	FS02	Solid	05/10/21 16:35	05/11/21 08:55	- 4
890-654-3	FS03	Solid	05/10/21 16:40	05/11/21 08:55	- 4
890-654-4	FS04	Solid	05/10/21 16:45	05/11/21 08:55	- 4
890-654-5	FS05	Solid	05/10/21 16:50	05/11/21 08:55	- 4
890-654-6	FS06	Solid	05/10/21 16:55	05/11/21 08:55	- 4
890-654-7	SW01	Solid	05/10/21 17:00	05/11/21 08:55	- 2
890-654-8	SW02	Solid	05/10/21 17:05	05/11/21 08:55	- 2
890-654-9	SW03	Solid	05/10/21 17:10	05/11/21 08:55	- 2
890-654-10	SW04	Solid	05/10/21 17:10	05/11/21 08:55	- 2

Notice: Signature of this Circle Method(s)

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Revised Date 08/25/2020 Rev. 2020 2

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Phone:

City, State ZIP: Address: Company Name

Permian

Company Name:

Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund

Work Order Comments

www.xenco.com

Page

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Sampler's Name:

SAMPLE RECH

Sample Custody Se Cooler Custody Sea Samples Received

otal Containers:

Project Number: Project Name:

> Xenco nvironment Testing

Chain of Custody

Work Order No:

idress: 5315 Buena Uista			State of Project:	
none: 575 - 725 - 1647	Email:	Lyndus Laumbach a) Woxenergy com	Deliverables: EDD ☐ ADaPT ☐ Other:	
oject Name: North Brushy	North Brushy Draw Fed 35 Turn Around	ANALYSIS REQUEST	QUEST Preservative Codes	
эг:	X Rout	Pres. Code	None	H ₂ O
oject Location:	Due Date:	. 00) .1)	Cool: Cool MeOH: Me	(0)
Yler) om Nauc 2 TAT starts the day received by	2	HCL: HC HNO ₃ : HN	
-		3	H ₂ SO ₄ : H ₂ NaOH: Na	
AMPLE RECEIPT Temp Blank:	ank: Kes No Wetice: Kes No	PA D	H₃PO₄; HP	
amples Received Intact: Yes No	No Thermometer ID: T-NM-00"7	(E	NaHSO₄: NABIS	
ooler Custody Seals: Yes No	N/A Correction Factor:	·s net	890-654 Chain of Custody Na ₂ S ₂ O ₃ : NaSO ₃	
ample Custody Seals: Yes No	N/A Temperature Reading: 3., C	(m	Zn Acetate+NaOH: Zn	
otal Containers:	Corrected Temperature: 2,8	-	NaOH+Ascorbic Acid: SAPC	
Sample Identification	Matrix Sampled Sampled Depth Comp	cont Chl BTE TPL	Sample Comments	
FS01	S 5-10-21 16:30 4' C	XXX		
FS 02	16:35 H, C			
FS63	16:46 4' C			<u></u>
ES04	16:45 4, C			
FS05	16:80 H C			
FS06	16:55 H, C			
Swol	2			
SW02	17:05 2' % C			
Sur\$	17:10 2' C			
SWOH	4 4 17:10 2: C	4 4		
Total 200.7 / 6010 200.8 / 6020:	20: 8RCRA 13PPM Texas 11 Al Sb	As Ba Be B Cd Ca Cr Co Cu Fe	Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn	
ircle Method(s) and Metal(s) to be analyzed	analyzed TCLP / SPLP 6010: 8RCRA	RA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni	Ni Se Ag TI U Hg: 1631 / 245.1 / 7470 / 7471	
tice: Signature of this document and relinqui	shment of samples constitutes a valid purchase order from	tice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It	rs. It assigns standard terms and conditions	
service. Eurofins Xenco will be liable only fo Eurofins Xenco. A minimum charge of \$85.0	r the cost of samples and shall not assume any responsibilit) will be applied to each project and a charge of \$5 for each	service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are c Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms w	s are due to circumstances beyond the control rms will be enforced unless previously negotiated.	
Relipquished by: (Signature)	Received by: (Signature)	Date/Time Relinquished by: (Signature)	ature) Received by: (Signature) Date/Time	

Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199 1

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Eurofins Xenco, Carlsbad 1089 N Canal St

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Chain of Custody Record

s eurofins

S Environment Testing
America

State, Zip: TX, 79701 Midland Shipping/Receiving 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 nainfain 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 LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. SW03 (890-654-9) SW02 (890-654-8) SW01 (890-654-7) ²S06 (890-654-6) ⁻S05 (890-654-5) =S04 (890-654-4) ⁻S03 (890-654-3) ²S02 (890-654-2) FS01 (890-654-1) 432-704-5440(Tel) Client Information (Sub Contract Lab) mpty Kit Relinquished by ossible Hazard Identification roject Name: North Brushy Draw Fed 1211 W Florida Ave Deliverable Requested | II III IV Other (specify) ample Identification - Client ID (Lab ID elinquished by linquished by elinquished by urofins Xenco confirmed Custody Seal No રિ Ŏ 23 Phone Sampler Date/Time Date/Time: Date/Time: Primary Deliverable Rank. 2 WO# Due Date Requested 5/17/2021 SSOW#: 88000204 TAT Requested (days) Sample Date 5/10/21 5/10/21 5/10/21 5/10/21 5/10/21 5/10/21 5/10/21 5/10/21 5/10/21 Date Mountain 17 10 Mountain 17 00 Mountain 16 55 Mountain 17 05 Mountain 16 45 Mountain 16 40 Mountain 16 50 Mountain 16 35 Mountair Sample 16 30 (C=comp, G=grab) Sample Preservation Code: Type Company Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Kramer, Jessica jessica kramer@eurofinset com Mail NELAP - Louisiana NELAP - Texas Time Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Received by: 300 ORGFM 28D/DI LEACH Chloride Cooler Temperature(s) °C and Other Remarks × \times × × × × × × × × × × × × × × 8015MOD_NM/8016NM_S_Prep Full TPH × × × 8021B/5036FP_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 ANCH
C Zn Acetate
D Nitric Acid
E NaHSO4
F- MeOH
G Amchlor
H Ascorbic Acid
I loe
J DI Water
K EDTA
L EDA COC No: 890-212 1 Preservation Codes Page 1 of 2 390-654-1 Special Instructions/Note: M - Hexane N None D AsNaO2 Na2O4S Na2SO3 Na2S2O3 Company Company Ver: 11/01/2020 V pH 4-5 - other (specify) H2SO4
TSP Dodecahydrate
J Acetone
/ MCAA Months

Login Sample Receipt Checklist

Client: WPX Energy Production LLC

Job Number: 890-654-1 SDG Number:

Login Number: 654 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	

Login Sample Receipt Checklist

Client: WPX Energy Production LLC

Job Number: 890-654-1

SDG Number:

List Source: Eurofins Midland Login Number: 654 List Number: 2 List Creation: 05/11/21 02:06 PM

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	True	

Eurofins Carlsbad

Released to Imaging: 10/1/2021 10:56:45 AM

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-783-1

Client Project/Site: North Brushy Draw 35

For:

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

Attn: Lynda Laumbach

MAMER

Authorized for release by: 6/10/2021 6:35:42 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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Released to Imaging: 10/1/2021 10:56:45 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 Laboratory Job ID: 890-783-1

Project/Site: North Brushy Draw 35

Table of Contents

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Definitions/Glossary

Client: WPX Energy Production LLC Job ID: 890-783-1

Project/Site: North Brushy Draw 35

Qualifiers

GC VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

S1-Surrogate recovery exceeds control limits, low biased. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

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

Percent Recovery %R CFL Contains Free Liquid CFU Colony Forming Unit 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) LOQ Limit of Quantitation (DoD/DOE)

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

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

Not Calculated NC

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

NEG Negative / Absent Positive / Present POS

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WPX Energy Production LLC Project/Site: North Brushy Draw 35

Job ID: 890-783-1

Job ID: 890-783-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-783-1

Receipt

The samples were received on 6/7/2021 8:51 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 time was 2.2°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FS07 (890-783-1), FS08 (890-783-2), FS09 (890-783-3) and FS11 (890-783-4).

GC VOA

Method 8021B: Internal standard responses were outside of acceptance limits for the following sample: FS07 (890-783-1). The sample(s) shows evidence of matrix interference.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS07 (890-783-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Manual integration was performed on the following samples: FS07 (890-783-1), FS08 (890-783-2), FS09 (890-783-3), FS11 (890-783-4) and (MB 880-3906/1-A). A manual integration was performed in the >C12-C28 hydrocarbon range and the >C28-C36 hydrocarbon range due to a baseline rise creating a false detections.

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

HPLC/IC

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

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Job ID: 890-783-1

Client: WPX Energy Production LLC Project/Site: North Brushy Draw 35

Client Sample ID: FS07

Date Collected: 06/03/21 13:30 Date Received: 06/07/21 08:51

Method: 8021B - Volatile Organic Compounds (GC)

Sample Depth: - 0.5

Lab Sample ID: 890-783-1

Matrix: Solid

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Dil Fac

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/08/21 09:13	06/08/21 18:27	1
Toluene	< 0.00199	U	0.00199		mg/Kg		06/08/21 09:13	06/08/21 18:27	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		06/08/21 09:13	06/08/21 18:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/08/21 09:13	06/08/21 18:27	,
o-Xylene	< 0.00199	U	0.00199		mg/Kg		06/08/21 09:13	06/08/21 18:27	,
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/08/21 09:13	06/08/21 18:27	
Total BTEX	<0.00398	U	0.00398		mg/Kg		06/08/21 09:13	06/08/21 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				06/08/21 09:13	06/08/21 18:27	
4-bromonuorobenzene (Surr)									
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang	•		70 - 130				06/08/21 09:13	06/08/21 18:27	•
1,4-Difluorobenzene (Surr)		RO) (GC)	70 - 130				06/08/21 09:13	06/08/21 18:27	
1,4-Difluorobenzene (Surr)	je Organics (D	RO) (GC) Qualifier	70 - 130 RL	MDL	Unit	<u>D</u>	06/08/21 09:13 Prepared	06/08/21 18:27 Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	je Organics (D	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	e Organics (D Result <49.8	Qualifier U	RL 49.8	MDL	mg/Kg	<u>D</u>	Prepared 06/08/21 16:28	Analyzed 06/08/21 22:32	Dil Fac
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	Qualifier U	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Organics (Diam's Result	Qualifier U	RL 49.8	MDL	mg/Kg	<u>D</u>	Prepared 06/08/21 16:28 06/08/21 16:28	Analyzed 06/08/21 22:32 06/08/21 22:32	Dil Fac
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	e Organics (D Result <49.8	Qualifier U U	RL 49.8	MDL	mg/Kg	<u>D</u>	Prepared 06/08/21 16:28	Analyzed 06/08/21 22:32	Dil Fac
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Organics (Diamonto)	Qualifier U U	RL 49.8 49.8 49.8	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 06/08/21 16:28 06/08/21 16:28 06/08/21 16:28	Analyzed 06/08/21 22:32 06/08/21 22:32 06/08/21 22:32	Dil Fac
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Organics (Diamonto)	Qualifier U U U U	RL 49.8 49.8 49.8	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 06/08/21 16:28 06/08/21 16:28 06/08/21 16:28	Analyzed 06/08/21 22:32 06/08/21 22:32 06/08/21 22:32	Dil Fac
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Programme	Qualifier U U U U	RL 49.8 49.8 49.8 49.8	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 06/08/21 16:28 06/08/21 16:28 06/08/21 16:28 06/08/21 16:28	Analyzed 06/08/21 22:32 06/08/21 22:32 06/08/21 22:32 06/08/21 22:32	

Client Sample ID: FS08 Lab Sample ID: 890-783-2

RL

5.02

MDL Unit

mg/Kg

D

Prepared

Analyzed

06/09/21 17:15

Result Qualifier

53.4

Date Collected: 06/03/21 13:35 Date Received: 06/07/21 08:51

Sample Depth: - 0.5

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/08/21 09:13	06/08/21 18:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/08/21 09:13	06/08/21 18:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/08/21 09:13	06/08/21 18:47	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/08/21 09:13	06/08/21 18:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/08/21 09:13	06/08/21 18:47	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/08/21 09:13	06/08/21 18:47	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		06/08/21 09:13	06/08/21 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				06/08/21 09:13	06/08/21 18:47	1
1,4-Difluorobenzene (Surr)	99		70 ₋ 130				06/08/21 09:13	06/08/21 18:47	1

Client: WPX Energy Production LLC Job ID: 890-783-1

Project/Site: North Brushy Draw 35

Date Received: 06/07/21 08:51

Client Sample ID: FS08 Lab Sample ID: 890-783-2 Date Collected: 06/03/21 13:35

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		06/08/21 16:28	06/08/21 23:33	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		06/08/21 16:28	06/08/21 23:33	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/08/21 16:28	06/08/21 23:33	1
Total TPH	<49.8	U	49.8		mg/Kg		06/08/21 16:28	06/08/21 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				06/08/21 16:28	06/08/21 23:33	1
o-Terphenyl	115		70 - 130				06/08/21 16:28	06/08/21 23:33	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.1		5.05		mg/Kg			06/09/21 17:29	

Client Sample ID: FS09 Lab Sample ID: 890-783-3

Date Collected: 06/03/21 13:40 Matrix: Solid

Date Received: 06/07/21 08:51

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/08/21 09:13	06/08/21 19:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/08/21 09:13	06/08/21 19:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/08/21 09:13	06/08/21 19:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/08/21 09:13	06/08/21 19:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/08/21 09:13	06/08/21 19:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/08/21 09:13	06/08/21 19:08	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		06/08/21 09:13	06/08/21 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				06/08/21 09:13	06/08/21 19:08	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/08/21 09:13	06/08/21 19:08	1
Method: 8015B NM - Diesel Rang Analyte		RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rand	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier		MDL		<u>D</u>			Dil Fac
		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 06/08/21 16:28	Analyzed 06/08/21 23:53	Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier U		MDL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result < 50.0	Qualifier U	50.0	MDL	mg/Kg	<u>D</u>	06/08/21 16:28	06/08/21 23:53	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result < 50.0	Qualifier U	50.0	MDL	mg/Kg	<u>D</u>	06/08/21 16:28	06/08/21 23:53	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U U	50.0	MDL	mg/Kg	<u>D</u>	06/08/21 16:28 06/08/21 16:28	06/08/21 23:53 06/08/21 23:53	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U U	50.0 50.0 50.0	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	06/08/21 16:28 06/08/21 16:28 06/08/21 16:28	06/08/21 23:53 06/08/21 23:53 06/08/21 23:53	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 <50.0 <50.0 <50.0 <50.0 <50.0	Qualifier U U U U	50.0 50.0 50.0 50.0	MDL	mg/Kg mg/Kg mg/Kg	D	06/08/21 16:28 06/08/21 16:28 06/08/21 16:28 06/08/21 16:28	06/08/21 23:53 06/08/21 23:53 06/08/21 23:53 06/08/21 23:53	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	Result	Qualifier U U U U	50.0 50.0 50.0 50.0 Limits	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	06/08/21 16:28 06/08/21 16:28 06/08/21 16:28 06/08/21 16:28 Prepared	06/08/21 23:53 06/08/21 23:53 06/08/21 23:53 06/08/21 23:53 Analyzed	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	50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	06/08/21 16:28 06/08/21 16:28 06/08/21 16:28 06/08/21 16:28 Prepared 06/08/21 16:28	06/08/21 23:53 06/08/21 23:53 06/08/21 23:53 06/08/21 23:53 Analyzed 06/08/21 23:53	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	50.0 50.0 50.0 50.0 Limits 70 - 130		mg/Kg mg/Kg mg/Kg	<u>D</u>	06/08/21 16:28 06/08/21 16:28 06/08/21 16:28 06/08/21 16:28 Prepared 06/08/21 16:28	06/08/21 23:53 06/08/21 23:53 06/08/21 23:53 06/08/21 23:53 Analyzed 06/08/21 23:53	1 1 1

Client Sample Results

Client: WPX Energy Production LLC Project/Site: North Brushy Draw 35

Job ID: 890-783-1

Client Sample ID: FS11

Lab Sample ID: 890-783-4

Matrix: Solid

Date Collected: 06/03/21 13:50 Date Received: 06/07/21 08:51

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		06/08/21 09:13	06/08/21 19:28	
Toluene	<0.00202	U	0.00202		mg/Kg		06/08/21 09:13	06/08/21 19:28	•
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/08/21 09:13	06/08/21 19:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/08/21 09:13	06/08/21 19:28	
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/08/21 09:13	06/08/21 19:28	•
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/08/21 09:13	06/08/21 19:28	•
Total BTEX	<0.00403	U	0.00403		mg/Kg		06/08/21 09:13	06/08/21 19:28	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	118		70 - 130				06/08/21 09:13	06/08/21 19:28	
1,4-Difluorobenzene (Surr)	102		70 - 130				06/08/21 09:13	06/08/21 19:28	1
: Method: 8015B NM - Diesel Rang	ge Organics (DI	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared 10:00	Analyzed Octoor	
Analyte Gasoline Range Organics	•	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 06/08/21 16:28	Analyzed 06/09/21 00:13	
Analyte	Result	Qualifier U		MDL		<u>D</u>	<u>.</u>		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		Qualifier U	49.8	MDL	mg/Kg	<u>D</u>	06/08/21 16:28	06/09/21 00:13	
Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U	49.8	MDL	mg/Kg	<u>D</u>	06/08/21 16:28	06/09/21 00:13	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>	06/08/21 16:28 06/08/21 16:28	06/09/21 00:13 06/09/21 00:13	
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>	06/08/21 16:28 06/08/21 16:28 06/08/21 16:28	06/09/21 00:13 06/09/21 00:13 06/09/21 00:13	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII 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>	06/08/21 16:28 06/08/21 16:28 06/08/21 16:28 06/08/21 16:28	06/09/21 00:13 06/09/21 00:13 06/09/21 00:13 06/09/21 00:13	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll 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	Qualifier U U U U	49.8 49.8 49.8 49.8 Limits	MDL	mg/Kg mg/Kg mg/Kg	<u> </u>	06/08/21 16:28 06/08/21 16:28 06/08/21 16:28 06/08/21 16:28 Prepared	06/09/21 00:13 06/09/21 00:13 06/09/21 00:13 06/09/21 00:13 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 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8 <41.8	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>	06/08/21 16:28 06/08/21 16:28 06/08/21 16:28 06/08/21 16:28 Prepared 06/08/21 16:28	06/09/21 00:13 06/09/21 00:13 06/09/21 00:13 06/09/21 00:13 Analyzed 06/09/21 00:13	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	D_	06/08/21 16:28 06/08/21 16:28 06/08/21 16:28 06/08/21 16:28 Prepared 06/08/21 16:28	06/09/21 00:13 06/09/21 00:13 06/09/21 00:13 06/09/21 00:13 Analyzed 06/09/21 00:13	Dil Fac

Surrogate Summary

Client: WPX Energy Production LLC Job ID: 890-783-1

Project/Site: North Brushy Draw 35

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-783-1	FS07	133 S1+	86	
890-783-2	FS08	116	99	
890-783-3	FS09	118	100	
890-783-4	FS11	118	102	
LCS 880-3869/1-A	Lab Control Sample	107	94	
LCSD 880-3869/2-A	Lab Control Sample Dup	107	95	
MB 880-3869/5-A	Method Blank	112	95	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-783-1	FS07	109	111	
890-783-1 MS	FS07	115	109	
890-783-1 MSD	FS07	115	110	
890-783-2	FS08	110	115	
890-783-3	FS09	104	107	
890-783-4	FS11	111	112	
LCS 880-3906/2-A	Lab Control Sample	98	98	
LCSD 880-3906/3-A	Lab Control Sample Dup	99	99	
MB 880-3906/1-A	Method Blank	94	0.003 S1-	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WPX Energy Production LLC Job ID: 890-783-1

Project/Site: North Brushy Draw 35

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3869/5-A

Matrix: Solid Analysis Batch: 3870 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3869

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 13:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 13:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 13:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/08/21 09:13	06/08/21 13:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 13:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/08/21 09:13	06/08/21 13:03	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/08/21 09:13	06/08/21 13:03	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	06/08/21 09:13	06/08/21 13:03	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/08/21 09:13	06/08/21 13:03	1

Lab Sample ID: LCS 880-3869/1-A

Matrix: Solid

Analysis Batch: 3870

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3869

Spike LCS LCS %Rec. Result Qualifier Analyte Added Unit %Rec Limits Benzene 0.100 0.08975 mg/Kg 90 70 - 130 Toluene 0.100 105 0.1047 mg/Kg 70 - 130 Ethylbenzene 0.100 0.1104 mg/Kg 110 70 - 130 m-Xylene & p-Xylene 0.200 0.2269 113 70 - 130 mg/Kg 70 - 130 o-Xylene 0.100 0.1153 mg/Kg 115

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	94	70 - 130

Lab Sample ID: LCSD 880-3869/2-A

Matrix: Solid

Analysis Batch: 3870

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3869

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08806		mg/Kg		88	70 - 130	2	35
Toluene	0.100	0.1037		mg/Kg		104	70 - 130	1	35
Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2258		mg/Kg		113	70 - 130	0	35
o-Xylene	0.100	0.1137		mg/Kg		114	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1.4-Difluorobenzene (Surr)	95	70 - 130

Client: WPX Energy Production LLC

Job ID: 890-783-1

Project/Site: North Brushy Draw 35

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

Lab Sample ID: MB 880-3906/1-A

Analysis Batch: 3875

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3906

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		06/08/21 16:28	06/08/21 21:32	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		06/08/21 16:28	06/08/21 21:32	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/08/21 16:28	06/08/21 21:32	1
Total TPH	<50.0	U	50.0		mg/Kg		06/08/21 16:28	06/08/21 21:32	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	06/08/21 16:28	06/08/21 21:32	1
o-Terphenyl	0.003	S1-	70 - 130	06/08/21 16:28	06/08/21 21:32	1

Lab Sample ID: LCS 880-3906/2-A Client Sample ID: Lab Control Sample
Matrix: Solid Prep Type: Total/NA

Analysis Ratch

Analysis Batch: 3875

Prep Type: Total/NA
Prep Batch: 3906
Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 892.1 89 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1035 mg/Kg 103 70 - 130

C10-C28)

LCS LCS

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

Lab Sample ID: LCSD 880-3906/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 3875

Prep Type: Total/NA

Prep Batch: 3906

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	888.3		mg/Kg		89	70 - 130	0	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1036		mg/Kg		104	70 - 130	0	20
C10-C28)									

C10-C28)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 99
 70 - 130

 o-Terphenyl
 99
 70 - 130

Lab Sample ID: 890-783-1 MS

Matrix: Solid

Analysis Batch: 3875

Client Sample ID: FS07

Prep Type: Total/NA Prep Batch: 3906

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.8	U	999	1052		mg/Kg		105	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.8	U	999	1196		mg/Kg		120	70 _ 130	
C10-C28)										

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Client: WPX Energy Production LLC Project/Site: North Brushy Draw 35

Job ID: 890-783-1

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

Lab Sample ID: 890-783-1 MS **Matrix: Solid**

Analysis Batch: 3875

Client Sample ID: FS07 Prep Type: Total/NA Prep Batch: 3906

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 115 70 - 130 o-Terphenyl 109 70 - 130

Lab Sample ID: 890-783-1 MSD **Client Sample ID: FS07**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 3875** Prep Batch: 3906 MSD MSD %Rec. RPD

Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit <49.8 U 998 1051 105 70 - 130O 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 998 <49.8 U 1221 mg/Kg 122 70 - 1302 20 C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 115 110 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3883/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 3932

мв мв

Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chloride 5.00 <5.00 U mg/Kg 06/09/21 17:00

Lab Sample ID: LCS 880-3883/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 3932

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 248.5 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-3883/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3932

Spike LCSD LCSD %Rec. RPD Result Qualifier Added Analyte Unit D %Rec Limits RPD Limit Chloride 250 248.1 99 90 - 110 20 mg/Kg

Client Sample ID: FS07 Lab Sample ID: 890-783-1 MS **Prep Type: Soluble**

Matrix: Solid

Analysis Ratch: 3932

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Alialysis Datcii. 3332										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	53.4		251	299.2		mg/Kg		98	90 - 110	

QC Sample Results

Client: WPX Energy Production LLC Job ID: 890-783-1

Project/Site: North Brushy Draw 35

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-783-1 MSD **Client Sample ID: FS07 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3932

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	53.4		251	298.9		mg/Kg		98	90 - 110	0	20

Client: WPX Energy Production LLC
Project/Site: North Brushy Draw 35

Job ID: 890-783-1

GC VOA

Prep Batch: 3869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-783-1	FS07	Total/NA	Solid	5035	
890-783-2	FS08	Total/NA	Solid	5035	
890-783-3	FS09	Total/NA	Solid	5035	
890-783-4	FS11	Total/NA	Solid	5035	
MB 880-3869/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3869/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3869/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-783-1	FS07	Total/NA	Solid	8021B	3869
890-783-2	FS08	Total/NA	Solid	8021B	3869
890-783-3	FS09	Total/NA	Solid	8021B	3869
890-783-4	FS11	Total/NA	Solid	8021B	3869
MB 880-3869/5-A	Method Blank	Total/NA	Solid	8021B	3869
LCS 880-3869/1-A	Lab Control Sample	Total/NA	Solid	8021B	3869
LCSD 880-3869/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3869

GC Semi VOA

Analysis Batch: 3875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-783-1	FS07	Total/NA	Solid	8015B NM	3906
890-783-2	FS08	Total/NA	Solid	8015B NM	3906
890-783-3	FS09	Total/NA	Solid	8015B NM	3906
890-783-4	FS11	Total/NA	Solid	8015B NM	3906
MB 880-3906/1-A	Method Blank	Total/NA	Solid	8015B NM	3906
LCS 880-3906/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3906
LCSD 880-3906/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3906
890-783-1 MS	FS07	Total/NA	Solid	8015B NM	3906
890-783-1 MSD	FS07	Total/NA	Solid	8015B NM	3906

Prep Batch: 3906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-783-1	FS07	Total/NA	Solid	8015NM Prep	
890-783-2	FS08	Total/NA	Solid	8015NM Prep	
890-783-3	FS09	Total/NA	Solid	8015NM Prep	
890-783-4	FS11	Total/NA	Solid	8015NM Prep	
MB 880-3906/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3906/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3906/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-783-1 MS	FS07	Total/NA	Solid	8015NM Prep	
890-783-1 MSD	FS07	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 3883

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-783-1	FS07	Soluble	Solid	DI Leach	
890-783-2	FS08	Soluble	Solid	DI Leach	
890-783-3	FS09	Soluble	Solid	DI Leach	
890-783-4	FS11	Soluble	Solid	DI Leach	

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Client: WPX Energy Production LLC
Project/Site: North Brushy Draw 35

Job ID: 890-783-1

HPLC/IC (Continued)

Leach Batch: 3883 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-3883/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3883/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3883/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-783-1 MS	FS07	Soluble	Solid	DI Leach	
890-783-1 MSD	FS07	Soluble	Solid	DI Leach	

Analysis Batch: 3932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-783-1	FS07	Soluble	Solid	300.0	3883
890-783-2	FS08	Soluble	Solid	300.0	3883
890-783-3	FS09	Soluble	Solid	300.0	3883
890-783-4	FS11	Soluble	Solid	300.0	3883
MB 880-3883/1-A	Method Blank	Soluble	Solid	300.0	3883
LCS 880-3883/2-A	Lab Control Sample	Soluble	Solid	300.0	3883
LCSD 880-3883/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3883
890-783-1 MS	FS07	Soluble	Solid	300.0	3883
890-783-1 MSD	FS07	Soluble	Solid	300.0	3883

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Lab Chronicle

Client: WPX Energy Production LLC Project/Site: North Brushy Draw 35

Job ID: 890-783-1

Client Sample ID: FS07

Lab Sample ID: 890-783-1

Matrix: Solid

Date Collected: 06/03/21 13:30 Date Received: 06/07/21 08:51

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	3869	06/08/21 09:13	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3870	06/08/21 18:27	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3906	06/08/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3875	06/08/21 22:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	3883	06/08/21 11:42	CH	XEN MID
Soluble	Analysis	300.0		1			3932	06/09/21 17:15	CH	XEN MID

Client Sample ID: FS08

Date Collected: 06/03/21 13:35

Date Received: 06/07/21 08:51

Lab Sample	ID: 890-783-2
	Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	3869	06/08/21 09:13	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3870	06/08/21 18:47	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	3906	06/08/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3875	06/08/21 23:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	3883	06/08/21 11:42	CH	XEN MID
Soluble	Analysis	300.0		1			3932	06/09/21 17:29	CH	XEN MID

Client Sample ID: FS09

Date Collected: 06/03/21 13:40 Date Received: 06/07/21 08:51

Lab Sample ID: 890-783-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	3869	06/08/21 09:13	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3870	06/08/21 19:08	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3906	06/08/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3875	06/08/21 23:53	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	3883	06/08/21 11:42	СН	XEN MID
Soluble	Analysis	300.0		1			3932	06/09/21 17:34	CH	XEN MID

Client Sample ID: FS11

Date Collected: 06/03/21 13:50

Date Received: 06/07/21 08:51

Lab Sample ID: 890-783-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	3869	06/08/21 09:13	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3870	06/08/21 19:28	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3906	06/08/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3875	06/09/21 00:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3883	06/08/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			3932	06/09/21 17:39	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WPX Energy Production LLC Job ID: 890-783-1

Project/Site: North Brushy Draw 35

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

Method Summary

Client: WPX Energy Production LLC Project/Site: North Brushy Draw 35

Job ID: 890-783-1

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

XEN MID = 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: North Brushy Draw 35

Job ID: 890-783-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-783-1	FS07	Solid	06/03/21 13:30	06/07/21 08:51	- 0.5
890-783-2	FS08	Solid	06/03/21 13:35	06/07/21 08:51	- 0.5
890-783-3	FS09	Solid	06/03/21 13:40	06/07/21 08:51	- 0.5
890-783-4	FS11	Solid	06/03/21 13:50	06/07/21 08:51	- 0.5

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Chain of Custody

Representation Local Loc	ii K Se Ag SiO ₂ Na Sr Tl Sn U V	Ca Cr Co Cu Fe Pb Mg Mn Mo N LCo Cu Ph Mn Mo Ni So Ag TI II ubcontractors. It assigns standard terms and conditions uch basses are due to dreumstances beyond the control and hosses are due to dreumstances beyond the control and these terms will be enforced unless previously nego-				Charge of 363.00 will be applied to	
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Manager: Lynds Laywhord Renary Renary Hobbs, MI (575) 982-349, Lubbock, TX (800) 794-1296 Manager: Lynds Laywhord Renary			Cd (PPM Texas 11 AI S	8RCR/) 200.8 / 6020: nd Metal(s) to be analy	Total 200.7 / 6010 Circle Method(s) a
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Manager: Lynda Laymback Manager: Lynda Lynda Laymback Manager: Lynda Lyn				1.0			Project Location:
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Carlsbad, NM 88220 Phone 575-988-3199 Fax: 575-988-3199

1089 N Canal St.

Eurofins Xenco, Carlsbad

Chain of Custody Record

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💸 eurofins

Environment Testing

State, Zip TX, 79701 FS11 (890-783-4) FS07 (890-783-1) Sample Identification - Client ID (Lab ID) Note: 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 maintain 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 LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. FS09 (890-783-3) FS08 (890-783-2) Midland mpty Kit Relinquished by Deliverable Requested | II III IV Other (specify) Possible Hazard Identification ^oroject Name: North Brushy Draw 35 432-704-5440(Tel) Client Information Shipping/Receiving 1211 W Florida Ave elinquished by linquished by urofins Xenco Custody Seals Intact. linquished by: Yes ∆ No (Sub Contract Lab) Custody Seal No 6 Due Date Requested: 6/11/2021 Date/Time: **₩** TAT Requested (days) 88000204 hone Primary Deliverable Rank Sample Date roject #: 6/3/21 6/3/21 6/3/21 6/3/21 Mountain 13 50 Mountain 13 40 Mountain Mountain 13 35 Sample 13 30 (C=comp, G=grab) Sample Preservation Code: Type Company Company Company Matrix Solid Solid Solid Solid Kramer, Jessica essica kramer@eurofinset com -Mail Field Filtered Sample (Yes or No) Accreditations Required (See note)
NELAP - Louisiana NELAP - Texas Ime Perform MS/MSD (Yes or No) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont Special Instructions/QC Requirements 300_ORGFM_28D/DI_LEACH Chioride Cooler Temperature(s) °C and Other Remarks Received by: × × × \times 8021B/5035FP_Calc BTEX × × × × × × × 8015MOD_NM/8015NM_S_Prep Full TPH × × × × TX_1005/TX_1005_S_Prep TX 1005 Analysis Requested State of Origin
New Mexico Method of Shipment Tracking No(s) Date/Time Total Number of containers COC No. 890-253 1 Preservation Codes 890-783-1 Page 1 of 1 lce
DI Water
EDTA
EDA HCL
NaOH
Zn Acetate
Nitric Acid
NaHSO4
MeOH
Ascorbic Acid Special Instructions/Note TOZ Company Ver: 11/01/2020 Company MCAA V pH 4-5 other (specify) Hexane None AsNaO2 Na2O4S Na2SO3 Na2S2O3 H2SO4 TSP Dodecahydrate Acetone Months

Login Sample Receipt Checklist

Client: WPX Energy Production LLC Job Num

Job Number: 890-783-1 SDG Number:

Login Number: 783 List Source: Eurofins Xenco, 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	

Login Sample Receipt Checklist

Client: WPX Energy Production LLC

Job Number: 890-783-1

SDG Number:

Login Number: 783 List Source: Eurofins Xenco, Midland List Number: 2 List Creation: 06/08/21 01:16 PM

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	True	

Eurofins Xenco, Carlsbad Released to Imaging: 10/1/2021 10:56:45 AM

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-923-1

Client Project/Site: North Brushy Draw 35

Revision: 1

For:

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

Attn: Lynda Laumbach

MAMER

Authorized for release by: 7/19/2021 12:45:36 PM

Jessica Kramer, Project Manager (432)704-5440

iessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 10/1/2021 10:56:45 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: North Brushy Draw 35

Laboratory Job ID: 890-923-1

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Definitions/Glossary

Client: WPX Energy Production LLC Job ID: 890-923-1

Project/Site: North Brushy Draw 35

Qualifiers

GC VOA Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

*1 LCS/LCSD RPD exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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) LOQ Limit of Quantitation (DoD/DOE)

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RI Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: WPX Energy Production LLC Project/Site: North Brushy Draw 35

Job ID: 890-923-1

Job ID: 890-923-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-923-1

Receipt

The sample was received on 7/12/2021 11:52 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FS08 (890-923-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-5105 and analytical batch 880-5113 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.

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

GC Semi VOA

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

HPLC/IC

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

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Client Sample Results

Client: WPX Energy Production LLC

Job ID: 890-923-1

Project/Site: North Brushy Draw 35 **Client Sample ID: FS10**

Lab Sample ID: 890-923-1

Prepared

07/14/21 08:51 07/16/21 17:08

07/14/21 08:51 07/16/21 17:08

Analyzed

Matrix: Solid

Date Collected: 07/06/21 08:30 Date Received: 07/12/21 11:52

Samp	le Depth:	- 0.5
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Surrogate

o-Terphenyl

1-Chlorooctane

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		07/13/21 14:47	07/13/21 18:47	1
Toluene	< 0.00200	U	0.00200		mg/Kg		07/13/21 14:47	07/13/21 18:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/21 14:47	07/13/21 18:47	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/13/21 14:47	07/13/21 18:47	1
o-Xylene	< 0.00200	U	0.00200		mg/Kg		07/13/21 14:47	07/13/21 18:47	1
Xylenes, Total	< 0.00401	U	0.00401		mg/Kg		07/13/21 14:47	07/13/21 18:47	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/13/21 14:47	07/13/21 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				07/13/21 14:47	07/13/21 18:47	1
1,4-Difluorobenzene (Surr)	101		70 - 130				07/13/21 14:47	07/13/21 18:47	1
-									
Method: 8015B NM - Diesel R	ange Organi	ics (DRO)	(GC)						
	•	ics (DRO) Qualifier	(GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier	• •		Unit mg/Kg	_ <u>D</u>	Prepared 07/14/21 08:51	Analyzed 07/16/21 17:08	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U *1	RL _			_ <u>D</u>		07/16/21 17:08	Dil Fac
0 0	Result <50.0	Qualifier U *1	RL 50.0		mg/Kg	_ <u>D</u>	07/14/21 08:51	07/16/21 17:08	1 1 1

Method: 300.0 - Anions,	Ion Chromatography - Soluble
A 1 4	5 4 6 55

%Recovery Qualifier

99

114

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	<4.95 U	4.95	ma/Ka			07/14/21 15:31	1	

Limits

70 - 130

70 - 130

Dil Fac

Surrogate Summary

Client: WPX Energy Production LLC
Project/Site: North Brushy Draw 35

Job ID: 890-923-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Perce	ent Surrogate Recover	y (Acceptance	Limits)
		BFB1	DFBZ1			
Lab Sample ID	Client Sample ID	(70-130)	(70-130)			
890-923-1	FS10	103	101			
890-923-1 MS	FS10	113	88			
890-923-1 MSD	FS10	113	85			
LCS 880-5105/1-A	Lab Control Sample	98	99			
LCSD 880-5105/2-A	Lab Control Sample Dup	110	92			
MB 880-5105/5-A	Method Blank	104	96			
Surrogate Legend						
BFB = 4-Bromofluoro	penzene (Surr)			_		
DFBZ = 1,4-Difluorob	enzene (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)					
890-923-1	FS10	99	114					
LCS 880-5137/2-A	Lab Control Sample	114	121					
LCSD 880-5137/3-A	Lab Control Sample Dup	114	118					
MB 880-5137/1-A	Method Blank	94	111					

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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Client: WPX Energy Production LLC Job ID: 890-923-1

Project/Site: North Brushy Draw 35

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5105/5-A

Matrix: Solid

Analysis Batch: 5113

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5105

	IVIB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/13/21 14:47	07/13/21 18:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/13/21 14:47	07/13/21 18:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/13/21 14:47	07/13/21 18:18	•
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/13/21 14:47	07/13/21 18:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/13/21 14:47	07/13/21 18:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/13/21 14:47	07/13/21 18:18	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/13/21 14:47	07/13/21 18:18	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	07/13/21 14:47	07/13/21 18:18	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/13/21 14:47	07/13/21 18:18	1

Lab Sample ID: LCS 880-5105/1-A

Matrix: Solid

Analysis Batch: 5113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5105

I		Spike	LCS	LCS				%Rec.	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	0.100	0.08695		mg/Kg		87	70 - 130	
I	Toluene	0.100	0.08904		mg/Kg		89	70 - 130	
	Ethylbenzene	0.100	0.09480		mg/Kg		95	70 - 130	
	m-Xylene & p-Xylene	0.200	0.1909		mg/Kg		95	70 - 130	
	o-Xylene	0.100	0.09077		mg/Kg		91	70 - 130	
	Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	0.100 0.100 0.100 0.200	0.08695 0.08904 0.09480 0.1909	Quaimer	mg/Kg mg/Kg mg/Kg mg/Kg	<u>b</u>	87 89 95 95	70 - 130 70 - 130 70 - 130 70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1.4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: LCSD 880-5105/2-A

Matrix: Solid

Analysis Batch: 5113

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5105

	Spike	LCSD LCSD				%Rec.		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07956	mg/Kg		80	70 - 130	9	35
Toluene	0.100	0.09252	mg/Kg		93	70 - 130	4	35
Ethylbenzene	0.100	0.1043	mg/Kg		104	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2181	mg/Kg		109	70 - 130	13	35
o-Xylene	0.100	0.1051	mg/Kg		105	70 - 130	15	35

LCSD LCSD

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1.4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-923-1 MS

Matrix: Solid

Analysis Batch: 5113

Client Sample ID: FS10 Prep Type: Total/NA Prep Batch: 5105

Sample Sample Spike MS MS %Rec. Result Qualifier Result Qualifier Analyte Added Unit D %Rec Limits Benzene <0.00200 U F1 0.101 0.07566 mg/Kg 75 70 - 130

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Client: WPX Energy Production LLC Job ID: 890-923-1

Project/Site: North Brushy Draw 35

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

Lab Sample ID: 890-923-1 MS **Client Sample ID: FS10 Matrix: Solid Prep Type: Total/NA**

Analysis Batch: 5113 Prep Batch: 5105

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Toluene	<0.00200	U	0.101	0.08534		mg/Kg		85	70 - 130	
Ethylbenzene	<0.00200	U	0.101	0.1026		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.202	0.2089		mg/Kg		104	70 - 130	
o-Xylene	<0.00200	U	0.101	0.1014		mg/Kg		101	70 - 130	

MS MS %Recovery Surrogate Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 113 1,4-Difluorobenzene (Surr) 88 70 - 130

Lab Sample ID: 890-923-1 MSD Client Sample ID: FS10 **Prep Type: Total/NA**

Matrix: Solid

Analysis Batch: 5113

Analysis Batch: 5113									Prep	Batch:	5105
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.100	0.06871	F1	mg/Kg		68	70 - 130	10	35
Toluene	<0.00200	U	0.100	0.08439		mg/Kg		84	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.09650		mg/Kg		96	70 - 130	6	35
m-Xylene & p-Xylene	<0.00401	U	0.201	0.1987		mg/Kg		99	70 - 130	5	35
o-Xylene	<0.00200	U	0.100	0.09604		mg/Kg		96	70 - 130	5	35

MSD MSD %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 70 - 130 113 1,4-Difluorobenzene (Surr) 85 70 - 130

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

Lab Sample ID: MB 880-5137/1-A **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 5260** Prep Batch: 5137

MD MD

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 09:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 09:22	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 09:22	1
Total TPH	<50.0	U	50.0		mg/Kg		07/14/21 08:51	07/16/21 09:22	1

MB MB Qualifier Analyzed Surrogate %Recovery Limits Prepared Dil Fac 1-Chlorooctane 94 70 - 130 07/14/21 08:51 07/16/21 09:22 o-Terphenyl 111 70 - 130 07/14/21 08:51 07/16/21 09:22

Lab Sample ID: LCS 880-5137/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 5260**

Prep Batch: 5137 LCS LCS Spike %Rec. **Analyte** Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1258 mg/Kg 126 70 - 130

(GRO)-C6-C10

Eurofins Xenco, Carlsbad

7/19/2021 (Rev. 1)

Client: WPX Energy Production LLC Job ID: 890-923-1

Project/Site: North Brushy Draw 35

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

Lab Sample ID: LCS 880-5137/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 5260** Prep Batch: 5137 LCS LCS Spike %Rec.

Added Result Qualifier Unit %Rec Limits Diesel Range Organics (Over 1000 1128 mg/Kg 113 70 - 130

C10-C28)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: LCSD 880-5137/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 5260

Prep Batch: 5137 LCSD LCSD RPD Spike %Rec. Result Qualifier RPD Limit **Analyte** Added Unit %Rec Limits Gasoline Range Organics 1000 916.5 *1 92 70 - 130 31 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1100 mg/Kg 110 70 - 130 3 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 114 70 - 130 o-Terphenyl 118

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5133/1-A **Client Sample ID: Method Blank Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5134

MB MB **Analyte** Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 07/14/21 14:14 mg/Kg

Lab Sample ID: LCS 880-5133/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 5134

Spike LCS LCS %Rec. Analyte Added Result Qualifier %Rec Limits Unit Chloride 250 270.1 108 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-5133/3-A **Client Sample ID: Lab Control Sample Dup Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 5134

-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	270.7		mg/Kg		108	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WPX Energy Production LLC
Project/Site: North Brushy Draw 35

Job ID: 890-923-1

GC VOA

Prep Batch: 5105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-923-1	FS10	Total/NA	Solid	5035	
MB 880-5105/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5105/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5105/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-923-1 MS	FS10	Total/NA	Solid	5035	
890-923-1 MSD	FS10	Total/NA	Solid	5035	

Analysis Batch: 5113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-923-1	FS10	Total/NA	Solid	8021B	5105
MB 880-5105/5-A	Method Blank	Total/NA	Solid	8021B	5105
LCS 880-5105/1-A	Lab Control Sample	Total/NA	Solid	8021B	5105
LCSD 880-5105/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5105
890-923-1 MS	FS10	Total/NA	Solid	8021B	5105
890-923-1 MSD	FS10	Total/NA	Solid	8021B	5105

GC Semi VOA

Prep Batch: 5137

Lab Sample ID 890-923-1	Client Sample ID FS10	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-5137/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5137/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5137/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-923-1	FS10	Total/NA	Solid	8015B NM	5137
MB 880-5137/1-A	Method Blank	Total/NA	Solid	8015B NM	5137
LCS 880-5137/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5137
LCSD 880-5137/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5137

HPLC/IC

Leach Batch: 5133

Lab Sample ID 890-923-1	Client Sample ID FS10	Prep Type Soluble	Matrix Solid	Method Prep	Batch
MB 880-5133/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5133/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5133/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 5134

Released to Imaging: 10/1/2021 10:56:45 AM

Lab	Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890	-923-1	FS10	Soluble	Solid	300.0	5133
MB	880-5133/1-A	Method Blank	Soluble	Solid	300.0	5133
LCS	S 880-5133/2-A	Lab Control Sample	Soluble	Solid	300.0	5133
LCS	SD 880-5133/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5133

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Lab Chronicle

Client: WPX Energy Production LLC

Project/Site: North Brushy Draw 35

Lab Sample ID: 890-923-1

Matrix: Solid

Job ID: 890-923-1

Client Sample ID: FS10 Date Collected: 07/06/21 08:30 Date Received: 07/12/21 11:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5105	07/13/21 14:47	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5113	07/13/21 18:47	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5137	07/14/21 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5260	07/16/21 17:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5133	07/13/21 19:39	SC	XEN MID
Soluble	Analysis	300.0		1			5134	07/14/21 15:31	SC	XEN MID
_										

Laboratory References:

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

Accreditation/Certification Summary

Client: WPX Energy Production LLC Job ID: 890-923-1

Project/Site: North Brushy Draw 35

Laboratory: Eurofins Xenco, Midland

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

		Program	Identification Number	Expiration Date 06-30-22	
		NELAP	T104704400-20-21		
The following analyte the agency does not o		eport, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which	
Analysis Method	Prep Method	Matrix	Analyte		
Analysis Method 8015B NM	Prep Method 8015NM Prep	Matrix Solid	Analyte Total TPH		

Eurofins Xenco, Carlsbad

Method Summary

Client: WPX Energy Production LLC Project/Site: North Brushy Draw 35

Job ID: 890-923-1

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

XEN MID = 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: North Brushy Draw 35

Job ID: 890-923-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
Lab Gample ib	Olient Gample ID	Matrix	Oonecteu	IXECEIVEG	Берин
890-923-1	FS10	Solid	07/06/21 08:30	07/12/21 11:52	- 0.5
000 020-1	1010	Oolid	01/00/21 00.00	01112121 11.02	0.0

eurofins

Chain of Custody

ton, TX (281) 240-4200, Dallas, TX (214) 902-0300

Revised Date: 08/25/2020 Rev. 2020.2							
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			_				0 0 11 1
			1-12-21/11432	7-1	to and	7	1 Theland
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time		Received by: (Signature)	signature)Re	Relinquished by: (Signature)
	previously negotiated.	of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously.	ofins Xenco, but not analyz	ch sample submitted to Eu	ch project and a charge of \$5 for ea	charge of \$85.00 will be applied to ea	of Eurofins Xenco. A minimum
	litions	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard lerms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control	is Xenco, its affiliates and su s incurred by the client if su	m client company to Eurofi ity for any losses or expens	onstitutes a valid purchase order fro nd shall not assume any responsibil	ent and relinquishment of samples co be liable only for the cost of samples a	Notice: Signature of this docum of service. Eurofins Xenco will t
4/0 / /4/1	1 0 ng: 1031 / 243.1 / 14/0 / /4/1		As Ba Be Ca Cr	6010 : 8RCKA SI	ed iCLP/SPLP	Circle Method(s) and Metal(s) to be analyzed	Circle Method(s) ar
TI Sn U V Zn	i K Se	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn N	As Ba Be B Cd (13PPM Texas 11 Al Sb	8RCR	200.8 / 6020:	Total 200.7 / 6010
				7			
			X X	6.5' 6 1	1-6-21 8:30 6	5 7	F5.0%
Sample Comments			Chl BTE TPI	Depth Grab/ # of Comp Cont	Date Time Di	Matrix	Sample Identification
JOH+Ascorbic Acid: SAPC			orid EX	0	Corrected Temperature:	00	Total Containers:
Acetate+NaOH: Zn	Chain of Custody	890-923 Chain	(1	3.2	Temperature Reading:	Yes(NO N/A Te	Sample Custody Seals:
2S 2O3: NaSO 3			Me			Yes N/A N/A	Cooler Custody Seals:
4SO 4: NABIS			th	NA SO	Thermometer ID:	(Yes No	Samples Received Intact:
ŏ₄:HP			J	eters	Yes (No) Wet ice:	Temp Blank: Y	SAMPLE RECEIPT
io 4: H ₂ NaOH: Na			80		the lab, if received by 4:30pm	Control	PO #:
HCL: HC HNO 3: HN			.60 15	received by	TAT starts the day	Tile Danier	Sampler's Name:
Control Month)	Code	\dashv		Project Number:
	2				X, 101172	Mary Caron Caron	
Preservative Codes		ANAI YSIS REOLIEST			25	L. Rad. Oc.	
Other:	Deliverables: EDD ADaPT		aumbacha wexeneed com	_	Email:	1491-526-56H	
/UST TRRP Level IV	Reporting: Level II Level III PST/UST TRRP	Repo	V	City, State ZIP:	7	<u>م</u> ح	e ZIP:
	State of Project:	State	N/	Address:	٥ ا	20 20 20	
Brownfields RRC Superfund	UST/PST PRP	Program:	V	Company Name:	mids LC 1	he)an	
ments	Work Order Comments			Bill to: (if different)		Lynda Laumbach	Project Manager:
Page of	www.xenco.com						
_		X (806) 794-1296 JM (575) 988-3199	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs. NM (575) 392-7550, Carlsbad. NM (575) 988-3199	EL Paso, TX (91 Hobbs: NM (57		Xenco	
	איטוא טימני ייני	, 1X (Z10) 509-3334	Midland, IX (432) 704-5440, San Antonio, IX (210) 509-3334	Midland, IX (452	City I County	Y 25.5	
	Work Order No:	70 1740 200 3334	idinal TV (433) 704-5440 San Antonio TV (310)	1003(01),	Environment Testing	Environm	

Login Sample Receipt Checklist

Client: WPX Energy Production LLC Job Number: 890-923-1

List Source: Eurofins Xenco, Carlsbad Login Number: 923

List Number: 1

Creator: Olivas, Nathaniel

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	

Login Sample Receipt Checklist

Client: WPX Energy Production LLC Job Number: 890-923-1

List Source: Eurofins Xenco, Midland Login Number: 923 List Creation: 07/13/21 02:50 PM List Number: 2

Creator: Lowe, Katie

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	

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Incident ID	NRM2006956859
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following it	items must be included in the closure report.			
X A scaled site and sampling diagram as described in 19.15.29.	11 NMAC			
Note The Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office			
☐ Laboratory analyses of final sampling (Note: appropriate ODG	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 certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and replaced human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15.29.13 NMAC includ	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.			
Printed Name: Lynda Laumbach	Title: Environmental Professional			
Signature: Junda Sambach	Date:07/29/2021			
email: Lynda.Laumbach@dvn.com	Telephone:(575)725-1647			
OCD Only				
Received by: Robert Hamlet	Date:10/1/2021			
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.				
Closure Approved by: Robert Hamlet	Date:10/1/2021			
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced			

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

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

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

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

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

CONDITIONS

Action 38758

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	38758
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2006956859 NORTH BRUSHY DRAW FEDERAL 35 #002H, thank you. This closure is approved.	10/1/2021