

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	nAPP2108360703
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC.	OGRID: 246289
Contact Name: Lynda Laumbach	Contact Telephone: (575) 725-1647
Contact email: Lynda.Laumbach@wpxenergy.com	Incident # (assigned by OCD)
Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.02981 Longitude -103.88395
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: RDX 21 Federal #023	Site Type: Production Facility
Date Release Discovered: 03/24/2021	API# (if applicable): 30-015-39816

Unit Letter	Section	Township	Range	County
G	21	26S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls): 2	Volume Recovered (bbls): 1
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 6	Volume Recovered (bbls): 4
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

Valve connected to the gauge to measure casing pressure was left open causing the gauge to fail and release ~8bbl mixed fluids onto the pad surface. ~5bbl fluids were recovered.

$$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^3)}{4.21(\frac{ft^3}{bbl\ equivalent})} * estimated\ soil\ porosity(\%)$$


State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Lynda Laumbach</u>	Title: <u>Environmental Specialist</u>
Signature: <u></u>	Date: <u>04/07/2021</u>
email: <u>Lynda.Laumbach@wpenergy.com</u>	Telephone: <u>(575)725-1647</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>4/29/2021</u>

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

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

CONDITIONS

Action 23306

CONDITIONS OF APPROVAL

Operator: WPX ENERGY PERMIAN, LLC Devon Energy - Regulatory 333West Sheridan Ave. Oklahoma City, OK73102		OGRID: 246289	Action Number: 23306	Action Type: C-141
OCD Reviewer rmarcus		Condition None		

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

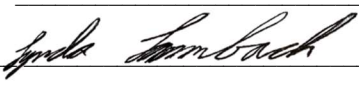
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico
Oil Conservation Division

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Printed Name: Lynda Laumbach Title: Environmental Professional
Signature:  Date: 05/27/2021
email: Lynda.Laumbach@dvN.com Telephone: (575)725-1647

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2108360703
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Application ID	


Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Lynda Laumbach Title: Environmental Professional
Signature:  Date: 05/27/2021
email: Lynda.Laumbach@dvn.com Telephone: (575)725-1647

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



May 27, 2021
Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210

Re: RDX 21 Federal #023 Release Closure Request (nAPP2108360703)

Mr. Bratcher,

This report summarizes the excavation and sampling activities at the RDX 21 Federal #023 well pad (Site). The Site map is provided as Figure 01. On March 24, 2021, the valve connected to the reader pressure gauge was left open causing the gauge to fail and release 6 barrels of produced water and 2 barrels of oil around the wellhead. 4 barrels of produced water and one barrel of oil was recovered with a vacuum truck.

Well Location: RDX 21 Federal #023

API #: 30-015-39816

NMOCD Reference #: nAPP2108360703

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

Release Latitude/Longitude: N32.02981, W103.88395

Land Jurisdiction: Federal

Estimated Depth to Groundwater: >100 feet, Attachment 01 RDX/RDU Depth to Water Report

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 March 25, 2021, personnel were onsite to map the release area. The visually impacted area is provided in Figure 02. Initial excavation activities were started on April 01, 2021. Sampling of the excavation took place on April 6, 2021 and sidewall samples SW01-SW03 and floor samples FS01-FS12 were collected. Delineation samples DS01-DS06 were collected on April 27, 2021 at depths of 0.5 to 1 foot below ground surface (bgs).

Pictures of the excavation activities are provided in Attachment 02. A total of 100 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. The excavation covered 2,300 square feet with an average depth of 1 foot bgs.

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. Delineation samples were taken via one-point discrete sampling. 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 delineation samples were below the allowable standards for Chlorides, BTEX,

and TPH. The sample locations are depicted in Figure 03. All sample results are summarized in Table 01 and complete lab results are provided in Attachment 03.

- Chloride analysis ranged from 112 mg/kg to 7,200 mg/kg
- BTEX analysis was below the Laboratory detectable limit
- TPH analysis ranged from below the Laboratory detectable limit to 282 mg/kg

Conclusions

The laboratory analytical results to address the impacted soils from nAPP2108360703 demonstrates compliance with the Table 1 Closure Criteria set forth by the NMOCD. Actions to mitigate initial impacts of this site have proven a successful remediation. WPX requests no further action for this incident. The updated C-141 is included at the front of this report. If any questions or further information is warranted, please do not hesitate to contact me by cell phone at (575) 725-1647 or by email at Lynda.Laumbach@dvn.com.

Best regards,



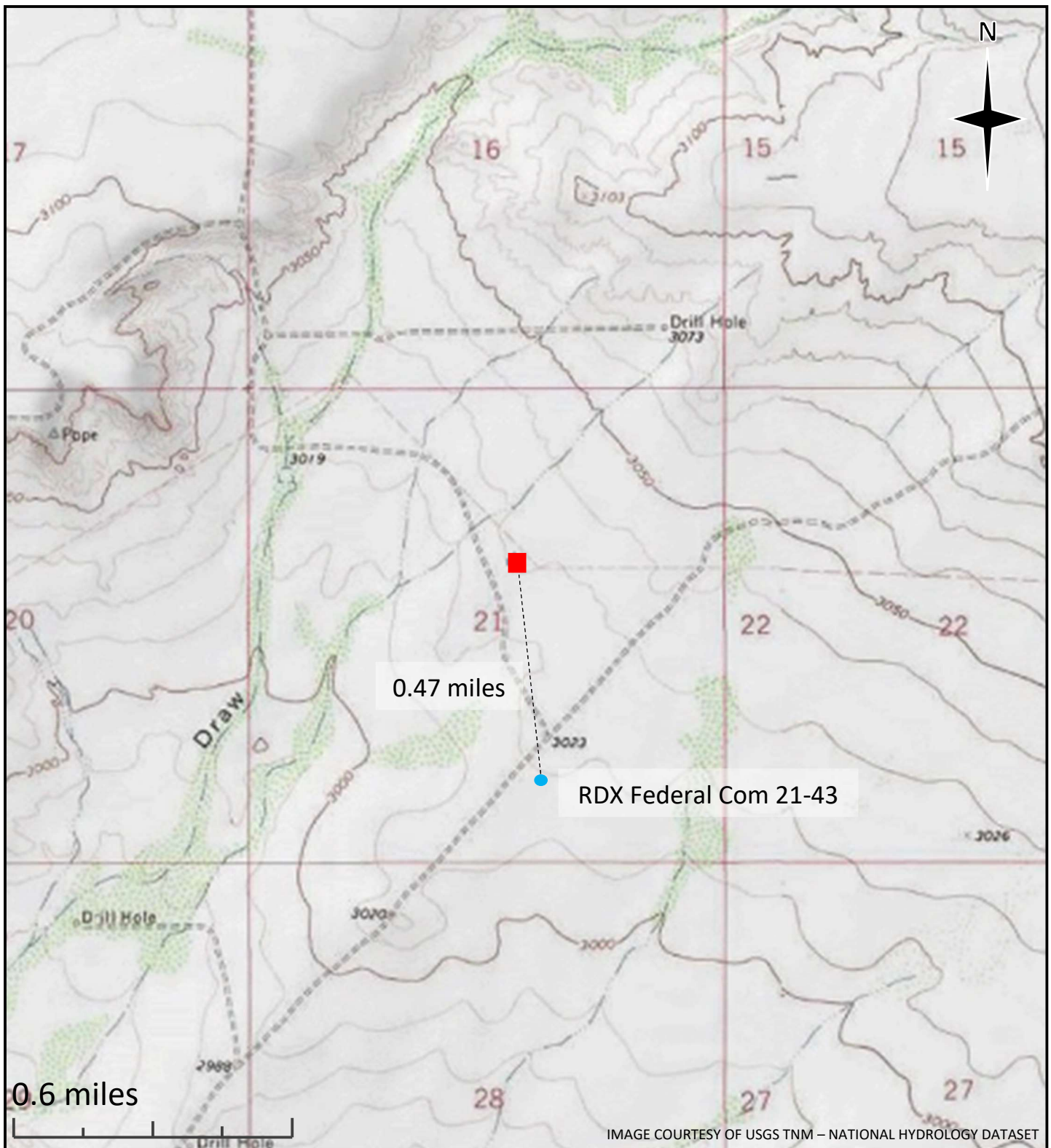
Lynda Laumbach
Environmental Professional

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

Attachments:

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

Figures



Legend

- WPX Wells (DTW determination)
- Site Location

Figure 01
RDX 21 Federal #023
30-015-39816
Permian Basin, Eddy County, NM
N32.02981, W103.88395



Legend

X Point of Release

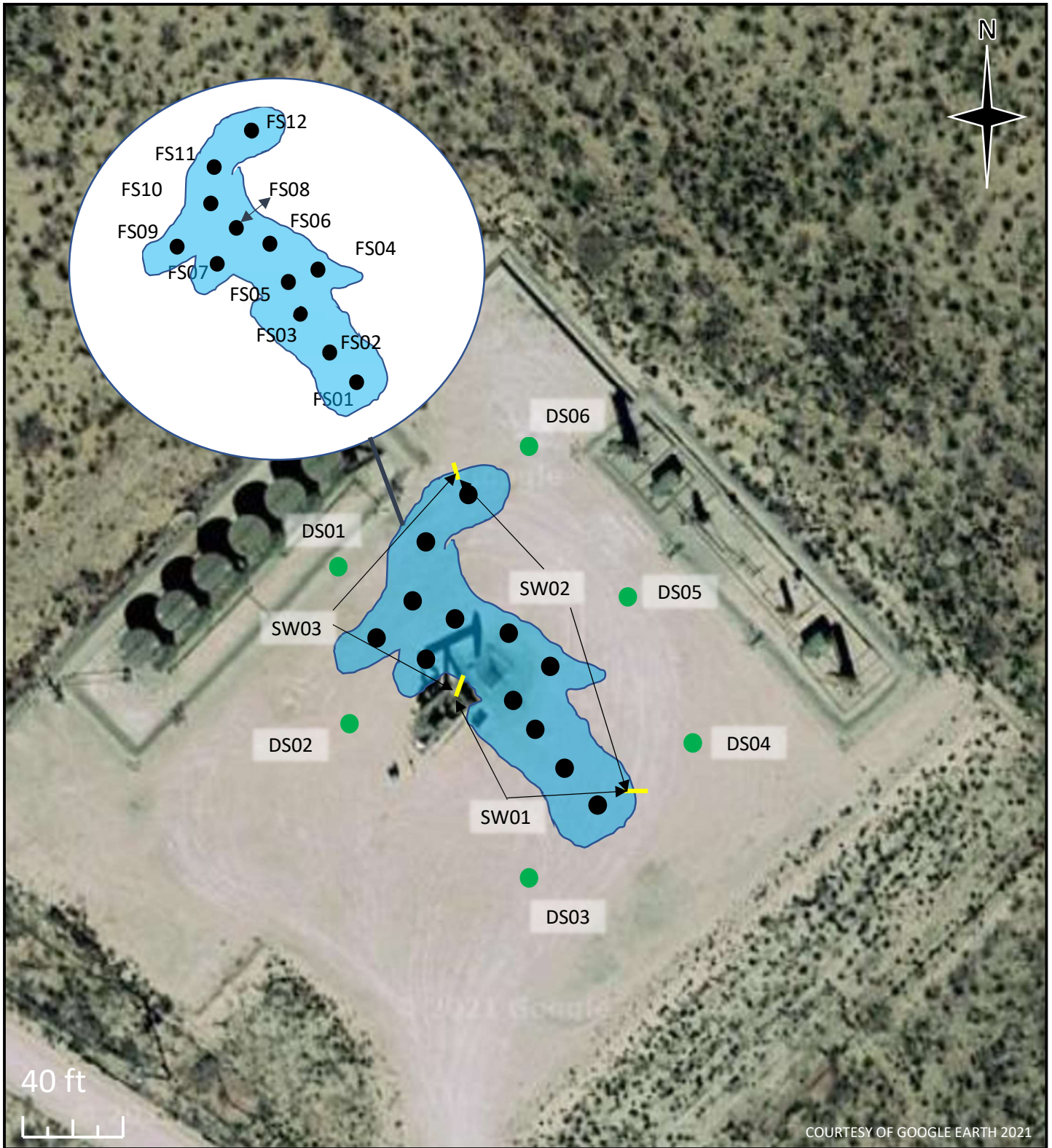
 Release Extent

Figure 02

RDX 21 Federal #023
30-015-39816

Permian Basin, Eddy County, NM

N32.02981, W103.88395



Legend

 Excavation Extent

Figure 03
RDX 21 Federal #023
30-015-39816
Permian Basin, Eddy County, NM
N32.02981, W103.88395

Table(s)

TABLE 01
SOIL SAMPLE ANALYTICAL RESULTS

RDX 21 FEDERAL #023H
NMOCD REFERENCE NUMBER: nAPP2108360703



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	1	4/6/2021	<0.00201	-	<50.0	141.0	<50.0	141.0	141	2610
FS02	1	4/6/2021	<0.00200	-	<50.0	151	<50.0	151	151	3830
FS03	1	4/6/2021	<0.00200	-	<49.8	280	<49.8	280	280	2320
FS04	1	4/6/2021	<0.00199	-	74.9	54.0	<49.8	54	129	3860
FS05	1	4/6/2021	<0.00200	-	<49.9	<49.9	<49.9	-	-	672
FS06	1	4/6/2021	<0.00200	-	54.6	137.0	<50.0	137	192	1330
FS07	1	4/6/2021	<0.00199	-	<50.0	86.2	<50.0	86.2	86.2	3680
FS08	1	4/6/2021	<0.00200	-	<49.9	<49.9	<49.9	-	-	2760
FS09	1	4/6/2021	<0.00200	-	<50.0	282	<50.0	282	282	7200
FS10	1	4/6/2021	<0.00199	-	<50.0	152	<50.0	152	152	2300
FS11	1	4/6/2021	<0.00199	-	<50.0	141	<50.0	141	141	3000
FS12	1	4/6/2021	<0.00198	-	61.6	<50.1	<50.1	-	61.6	1650
SW01	1	4/6/2021	<0.00198	-	<50.0	135	<50.0	135	135	2810
SW02	1	4/6/2021	<0.00200	-	<50.0	62.2	<50.0	62.2	62.2	1880
SW03	1	4/6/2021	<0.00202	-	51.7	65	<50.0	65	117	807
NMOCD Table 1 Closure Criteria			10	50	NE	NE	NE	1,000	2,500	20,000

Reference:	BTEX: benzene, toluene, ethylbenzene, and total xylenes	mg/kg: milligrams per kilogram
	GRO: gasoline range organics	NMOCD: New Mexico Oil Conservation Division
	DRO: diesel range organics	TPH: total petroleum hydrocarbons
	ft bgs: feet below ground surface	
	NMOCD Table 1 Closure Criteria: NMAC 19.15.29 August 2018 criteria for soils impacted based on characterization	

TABLE 01
SOIL SAMPLE ANALYTICAL RESULTS
RDX 21 FEDERAL #023H
NMOCD REFERENCE NUMBER: nAPP2108360703



Sample Name	Depth (ft bgs)	Sample Date	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	GRO + DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
DS01	0.5	4/26/2021	<0.00200	-	<49.9	<49.9	<49.9	-	-	555
DS01A	1	4/26/2021	<0.00199	-	<49.9	<49.9	<49.9	-	-	592
DS02	0.5	4/26/2021	<0.00200	-	<49.8	<49.8	<49.8	-	-	438
DS02A	1	4/26/2021	<0.00202	-	<49.9	<49.9	<49.9	-	-	597
DS03	0.5	4/26/2021	<0.00198	-	<50.0	<50.0	<50.0	-	-	160
DS03A	1	4/26/2021	<0.00199	-	<50.0	<50.0	<50.0	-	-	345
DS04	0.5	4/26/2021	<0.00201	-	<50.0	<50.0	<50.0	-	-	123
DS04A	1	4/26/2021	<0.00199	-	<49.9	<49.9	<49.9	-	-	265
DS05	0.5	4/26/2021	<0.00200	-	<49.9	<49.9	<49.9	-	-	313
DS05A	1	4/26/2021	<0.00199	-	<49.9	<49.9	<49.9	-	-	219
DS06	0.5	4/26/2021	<0.00198	-	<50.0	<50.0	<50.0	-	-	112
DS06A	1	4/26/2021	<0.00200	-	<50.1	59.6	<50.1	59.6	59.6	153
NMOCD Table 1 Closure Criteria			10	50	NE	NE	NE	1,000	2,500	20,000

Reference:	BTEX: benzene, toluene, ethylbenzene, and total xylenes	mg/kg: milligrams per kilogram
	GRO: gasoline range organics	NMOCD: New Mexico Oil Conservation Division
	DRO: diesel range organics	TPH: total petroleum hydrocarbons
	ft bgs: feet below ground surface	
	NMOCD Table 1 Closure Criteria: NMAC 19.15.29 August 2018 criteria for soils impacted based on characterization	
	* Samples were field screened with Hach® Chloride strips	

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

Attachment 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
Operations Manager

Attached: Drilling Locations Maps
Soil Boring Logs




Drilling Location Site Map


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





Drilling Location Site Map


North Brushy Federal 35 #010H	(32.079909, -103.951386)
RDX Federal Com 17-44H	(32.049656, -103.904054)


 HRL COMPLIANCE SOLUTIONS							BORING LOG/MONITORING WELL COMPLETION DIAGRAM						
							Boring/Well Number: MW-1			Location: RDX 16-25			
							Date: 12/10/2020			Client: WPX Energy			
Drilling Method: Air Rotary			Sampling Method: None				Logged By: J. Linn, PG			Drilled By: Talon LPE			
Gravel Pack Type: 10/20 sand			Gravel Pack Depth Interval: 3 bags				Seal Type: None		Seal Depth Interval: None		Latitude: 32.0399004		
Casing Type: PVC		Diameter: 2-inch		Depth Interval: 0-105 feet bgs			Boring Total Depth (ft. BGS): 110			Longitude: -103.8833368			
Screen Type: PVC		Slot: 0.010-inch		Diameter: 2-inch		Depth Interval: 105-110 ft		Well Total Depth (ft. BGS): 110			Depth to Water (ft. BTOC): > 110		
											DTW Date: 12/16/2020		
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks			Well Completion	
0	NM	L	D	N	N	NM	SW	NS	Pale orange to pink tan well graded sand with silt				
5													
10													
15													
20													
25	NM	L	D	N	N	NM	SP	NS	Pale pinky orange poorly graded fine sand				
30													
35													
40	NM	L	D	N	N	NM	SW	NS	Orange to pale red well graded sand with gravel				
45													
50	NM	L	D	N	N	NM	SP	NS	Pale pinky orange poorly graded fine sand				
55													
60	NM	L	D	N	N	NM	SP	NS	Pale pinky orange poorly graded fine sand with minor medium and coarse sand - TD: 110' bgs				
65													
70													
75													
80													
85													
90													
95													
100													
105													
110													


 HRL COMPLIANCE SOLUTIONS							BORING LOG/MONITORING WELL COMPLETION DIAGRAM						
							Boring/Well Number:		Location:				
							MW-1		RDX 17 #3				
							Date:		Client:				
							12/8/2020		WPX Energy				
Drilling Method:			Sampling Method:				Logged By:		Drilled By:				
Air Rotary			None				J. Linn, PG		Talon LPE				
Gravel Pack Type:			Gravel Pack Depth Interval:				Seal Type:		Seal Depth Interval:		Latitude:		
10/20 Sand			3 Bags				None		None		32.036765		
Casing Type:		Diameter:		Depth Interval:			Boring Total Depth (ft. BGS):			Longitude:			
PVC		2-inch		0-102 feet bgs			107			-103.895993			
Screen Type:		Slot:		Diameter:		Depth Interval:		Well Total Depth (ft. BGS):			Depth to Water (ft. BTOC):		
PVC		0.010-inch		2-inch		102-107 ft		107			> 107		
DTW Date:		12/16/2020											
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks			Well Completion	
0	NM	L	D	N	N	NM	SP	NS	Pale orange poorly graded fine sand				
5													
10													
15													
20													
25	NM	L	D	N	N	NM	SP	NS	Same as above with slight increase in coarse sand and gravel				
30													
35													
40													
45													
50	NM	L	D	N	N	NM	SP	NS	Pale orange poorly graded fine sand with very slight silt				
55													
60													
65													
70													
75	NM	M	SL M	N	N	NM	SM	NS	Pale red orange clayey silty fine sand with minor coarse sand and gravel				
80													
85													
90													
95													
100	NM	L	SL M	N	N	NM	SP	NS	Pale orange poorly sorted fine sand - TD 107' BGS				
105													


 HRL COMPLIANCE SOLUTIONS							BORING LOG/MONITORING WELL COMPLETION DIAGRAM					
							Boring/Well Number: MW-1		Location: RDX Federal Com 17-44H			
							Date: 12/8/2020		Client: WPX Energy			
Drilling Method: Air Rotary		Sampling Method: None		Logged By: J. Linn, PG		Drilled By: Talon LPE						
Gravel Pack Type: 10/20 Sand		Gravel Pack Depth Interval: 3 Bags		Seal Type: None		Seal Depth Interval: None		Latitude: 32.049656				
Casing Type: PVC		Diameter: 2-inch		Depth Interval: 0-105 ft bgs		Boring Total Depth (ft. BGS): 110		Longitude: -103.904054				
Screen Type: PVC		Slot: 0.010-inch		Diameter: 2-inch		Depth Interval: 105 - 110 ft		Well Total Depth (ft. BGS): 110		Depth to Water (ft. BTOC): > 110	DTW Date: 12/16/2020	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks		Well Completion	
0	NM	L	D	N	N	NM	CE	NS	Buff to pale pink colored caliche			
5												
10												
15												
20												
25												
30												
35												
40	NM	L	D	N	N	NM	SW	NS	Pinky orange well graded sand with minor silt			
45												
50												
55												
60	NM	L	D	N	N	NM	SP	NS	Pinky pale brown orange poorly graded fine sand with minor silt			
65												
70												
75	NM	L	D	N	N	NM	SW-SM SW-SC	NS	Pinky brown orange well-graded sand with silt and clay			
80												
85												
90	NM	L	D	N	N	NM	SP	NS	Pinky pale brown orange poorly graded fine sand with minor silt - TD: 110' bgs			
95												
100												
105												

 HRL COMPLIANCE SOLUTIONS							BORING LOG/MONITORING WELL COMPLETION DIAGRAM					
							Boring/Well Number:		Location:			
							MW-1		RDX Federal Com 21-43			
							Date:		Client:			
							12/9/2020		WPX Energy			
Drilling Method:			Sampling Method:				Logged By:		Drilled By:			
Air Rotary			None				J. Linn, P.G.		Talon LPE			
Gravel Pack Type:			Gravel Pack Depth Interval:				Seal Type:		Seal Depth Interval:		Latitude:	
10/20 Sand			3 Bags				None		None		32.022571	
Casing Type:		Diameter:	Depth Interval:				Boring Total Depth (ft. BGS):		Longitude:			
PVC		2-inch	0-100 feet bgs				110		-103.884371			
Screen Type:		Slot:	Diameter:	Depth Interval:				Well Total Depth (ft. BGS):		Depth to Water (ft. BTWC):		DTW Date:
PVC		0.010-inch	2-inch	100 - 105 ft				105		> 105		12/16/2020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks		Well Completion	
0	NM	L	D	N	N	NM	SP	NS	Pale orange to tan poorly graded fine sand			
5												
10												
15												
20	NM	H	D	N	N	NM	CL	NS	Pale orange/tan/pale red clay, dry, with silt, fine sand, and minor caliche			
25												
30												
35												
40	NM	L	D	N	N	NM	SP	NS	Pale orange to pale red poorly graded fine sand			
45												
50												
55												
60	NM	L	D	N	N	NM	SP	NS	Golden yellow poorly graded fine sand with minor silt and clay			
65												
70												
75												
80	NM	L	D	N	N	NM	SP	NS	Pale orange to pale red poorly graded fine sand with minor silt/clay			
85												
90												
95												
100	NM	H	D	N	N	NM	CL	NS	Brown orange clay with silt and fine sand			
105												
110												
115												
120	NM	H	D	N	N	NM	SC	NS	Golden yellow and buff colored clay with fine sand - TD Boring: 110' BGS; Sand 110' - 105' BGS			
125												
130												
135												

 HRL COMPLIANCE SOLUTIONS							BORING LOG/MONITORING WELL COMPLETION DIAGRAM						
							Boring/Well Number: MW-1			Location: Ross Draw Unit #38			
							Date: 12/8/2020			Client: WPX Energy			
Drilling Method: Air Rotary			Sampling Method: None				Logged By: J. Linn, PG			Drilled By: Talon LPE			
Gravel Pack Type: 10/20 Sand			Gravel Pack Depth Interval: 3 Bags				Seal Type: None		Seal Depth Interval: None		Latitude: 32.030300		
Casing Type: PVC		Diameter: 2-inch		Depth Interval: 0-100 feet bgs			Boring Total Depth (ft. BGS): 105			Longitude: -103.871338			
Screen Type: PVC		Slot: 0.010-inch		Diameter: 2-inch		Depth Interval: 100-105 ft		Well Total Depth (ft. BGS): 105			Depth to Water (ft. BTOC): > 105		
DTW Date: 12/16/2020													
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks			Well Completion	
0	NM	L	D	N	N	NM	SW	NS	Pale orange/pale pink to buff colored fine sand with minor medium and coarse sand				
5													
10													
15													
20	NM	L	D	N	N	NM	SP	NS	Pale orange/pale pink poorly graded fine sand				
25													
30													
35	NM	L	D	N	N	NM	SP	NS	Tan/pale brown/pale orange poorly graded fine sand				
40													
45													
50													
55													
60													
65	NM	L	D	N	N	NM	SP	NS	Brick red brown poorly graded fine sand				
70													
75													
80													
85													
90													
95	NM	L	D	N	N	NM	SP	NS	Tan/pale brown/pale orange poorly graded fine sand - TD 105' BGS				
100													

 HRL COMPLIANCE SOLUTIONS							BORING LOG/MONITORING WELL COMPLETION DIAGRAM						
							Boring/Well Number: MW-1			Location: Ross Draw Unit #55			
							Date: 12/9/2020			Client: WPX Energy			
Drilling Method: Air Rotary			Sampling Method: None				Logged By: J. Linn, PG			Drilled By: Talon LPE			
Gravel Pack Type: 10/20 Sand			Gravel Pack Depth Interval: 3 Bags				Seal Type: None		Seal Depth Interval: None		Latitude: 32.016165		
Casing Type: PVC		Diameter: 2-inch		Depth Interval: 0-101'7"			Boring Total Depth (ft. BGS): 106'7"			Longitude: -103.86346			
Screen Type: PVC		Slot: 0.010-inch		Diameter: 2-inch		Depth Interval: 101'7" - 106'7"		Well Total Depth (ft. BGS): 106'7"			Depth to Water (ft. BTOC): >106' 7"		
DTW Date: 12/16/2020													
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks			Well Completion	
0	NM	L	D	N	N	NM	SP	NS	Pale pink to buff colored poorly graded sand with minor silt				
5													
10													
15													
20	NM	L	D	N	N	NM	SW	NS	Pale tan orange well graded fine sand with minor medium and coarse sand				
25													
30													
35	NM	L	D	N	N	NM	SP	NS	Pale orange brown poorly graded fine sand with minor gravel				
40													
45													
50													
55													
60	NM	L	D	N	N	NM	SP	NS	Grey poorly graded fine sand with minor gravel				
65													
70													
75													
80													
85	NM	L	D	N	N	NM	SP	NS	Darker grey poorly graded fine sand with minor silt and minor medium sand				
90													
95													
100	NM	M	D	N	N	NM	SC	NS	Dark grey fine sand with moderate silt and clay - TD 106'7"				
106'7"													

 HRL COMPLIANCE SOLUTIONS							BORING LOG/MONITORING WELL COMPLETION DIAGRAM						
							Boring/Well Number: MW-1			Location: Ross Draw Unit #57			
							Date: 12/9/2020			Client: WPX Energy			
Drilling Method: Air Rotary			Sampling Method: None				Logged By: J. Linn, PG			Drilled By: Talon LPE			
Gravel Pack Type: 10/20 Sand			Gravel Pack Depth Interval: 3 Bags				Seal Type: None		Seal Depth Interval: None		Latitude: 32.01032		
Casing Type: PVC		Diameter: 2-inch		Depth Interval: 0-105 feet bgs			Boring Total Depth (ft. BGS): 110			Longitude: -103.87246			
Screen Type: PVC		Slot: 0.010-inch		Diameter: 2-inch		Depth Interval: 105-110 ft		Well Total Depth (ft. BGS): 110			Depth to Water (ft. BTOC): > 110		
											DTW Date: 12/16/2020		
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks			Well Completion	
0	NM	L/M	D	N	N	NM	SM	NS	Tan/pale orange/pale brown poorly graded fine sand				
5													
10													
15													
20													
25													
30													
35	NM	M	D	N	N	NM	SW	NS	Hard, dry pale pink orange well graded sand with gravel				
40													
45													
50	NM	M	D	N	N	NM	SM	NS	Pale orange red tan silty fine sand				
55													
60	NM	L	D	N	N	NM	SW	NS	Dark brown greyish well graded sand				
65													
70	NM	L/M	D to SL M	N	N	NM	SW	NS	Grey well graded sand				
75													
80													
85													
90													
95	NM	L/M	D	N	N	NM	SM	NS	Tan/pale orange/pale brown poorly graded fine sand - TD 110' bgs				
100													
105													

 HRL COMPLIANCE SOLUTIONS							BORING LOG/MONITORING WELL COMPLETION DIAGRAM						
							Boring/Well Number: MW-1		Location: North Brushy Federal 35 # 010H				
							Date: 12/8/2020		Client: WPX Energy				
Drilling Method: Air Rotary			Sampling Method: None				Logged By: J. Linn, PG		Drilled By: Talon LPE				
Gravel Pack Type: 10/20 Sand			Gravel Pack Depth Interval: 3 Bags				Seal Type: None		Seal Depth Interval: None		Latitude: 32.079909		
Casing Type: PVC		Diameter: 2-inch		Depth Interval: 0-100 feet bgs			Boring Total Depth (ft. BGS): 105		Longitude: -103.951386				
Screen Type: PVC		Slot: 0.010-inch		Diameter: 2-inch		Depth Interval: 100 - 105 ft		Well Total Depth (ft. BGS): 105		Depth to Water (ft. BTWC): > 105		DTW Date: 12/16/2020	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks		Well Completion		
0	NM	L	D	N	N	NM	CE	NS	Buff to pale pink caliche				
5													
10													
15													
20	NM	L	D	N	N	NM	SM	NS	Tan to pale red silty sand				
25													
30													
35													
40													
45													
50	NM	M	M	N	N	NM	ML	NS	Tan to pale red sandy silt with minor medium sand				
55													
60	NM	H	M	N	N	NM	CL	NS	Tan clay with minor gravel				
65													
70													
75	NM	L	D	N	N	NM	SP	NS	Pale red poorly graded fine sand with minor silt				
80													
85													
90	NM	H	D/SLM	N	N	NM	CL	NS	Grey sandy lean clay with minor medium sand and minor angular gravel				
95													
100													
90	NM	M/H	M	N	N	NM	CL	NS	Brown with orange sandy lean clay with minor medium sand and angular gravel - TD Boring: 105'				
95													
100													

Attachment 02



Picture 1- South face, northwest of PJ

27-Apr-21



Picture 2- North west face, east of PJ

27-Apr-21



Picture 3- West face, east of PJ

27-Apr-21



Picture 4- North face, north of PJ, flowline

27-Apr-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: 890-494-1
Client Project/Site: RDX 21-23

For:

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

Attn: Lynda Laumbach

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
4/20/2021 8:47:40 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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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.

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Laboratory Job ID: 890-494-1

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Definitions/Glossary

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Job ID: 890-494-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-494-1

Comments

No additional comments.

Receipt

The samples were received on 4/7/2021 8:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.4° C.

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FS01 (890-494-1), FS02 (890-494-2), FS03 (890-494-3), FS04 (890-494-4), FS05 (890-494-5), FS06 (890-494-6), FS07 (890-494-7), FS08 (890-494-8), FS09 (890-494-9), FS10 (890-494-10), FS11 (890-494-11), FS12 (890-494-12), SW01 (890-494-13), SW02 (890-494-14), SW03 (890-494-15) and SW04 (890-494-16).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-1572 and analytical batch 880-1562 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: FS06 (890-494-6) and FS09 (890-494-9). The sample(s) shows evidence of matrix interference.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-1477 and analytical batch 880-1603 were outside control limits. Non-homogeneity is 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 analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

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

Organic Prep

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

VOA Prep

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

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Client Sample ID: FS01

Lab Sample ID: 890-494-1

Date Collected: 04/06/21 13:00

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/07/21 16:15	04/10/21 03:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/07/21 16:15	04/10/21 03:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/07/21 16:15	04/10/21 03:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/07/21 16:15	04/10/21 03:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/07/21 16:15	04/10/21 03:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/07/21 16:15	04/10/21 03:58	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		04/07/21 16:15	04/10/21 03:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	04/07/21 16:15	04/10/21 03:58	1
1,4-Difluorobenzene (Surr)	106		70 - 130	04/07/21 16:15	04/10/21 03:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 17:26	1
Diesel Range Organics (Over C10-C28)	141		50.0		mg/Kg		04/07/21 16:09	04/08/21 17:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 17:26	1
Total TPH	141		50.0		mg/Kg		04/07/21 16:09	04/08/21 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	04/07/21 16:09	04/08/21 17:26	1
o-Terphenyl	86		70 - 130	04/07/21 16:09	04/08/21 17:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2610		25.1		mg/Kg			04/18/21 17:40	5

Client Sample ID: FS02

Lab Sample ID: 890-494-2

Date Collected: 04/06/21 13:05

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/07/21 16:15	04/10/21 04:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/07/21 16:15	04/10/21 04:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/07/21 16:15	04/10/21 04:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/07/21 16:15	04/10/21 04:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/07/21 16:15	04/10/21 04:23	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/07/21 16:15	04/10/21 04:23	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/07/21 16:15	04/10/21 04:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	04/07/21 16:15	04/10/21 04:23	1
1,4-Difluorobenzene (Surr)	104		70 - 130	04/07/21 16:15	04/10/21 04:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Client Sample ID: FS02

Lab Sample ID: 890-494-2

Date Collected: 04/06/21 13:05

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 17:47	1
Diesel Range Organics (Over C10-C28)	151		50.0		mg/Kg		04/07/21 16:09	04/08/21 17:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 17:47	1
Total TPH	151		50.0		mg/Kg		04/07/21 16:09	04/08/21 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	04/07/21 16:09	04/08/21 17:47	1
o-Terphenyl	94		70 - 130	04/07/21 16:09	04/08/21 17:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3830		25.2		mg/Kg			04/18/21 17:46	5

Client Sample ID: FS03

Lab Sample ID: 890-494-3

Date Collected: 04/06/21 13:10

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/07/21 16:15	04/10/21 04:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/07/21 16:15	04/10/21 04:49	1
Ethylbenzene	0.00222		0.00200		mg/Kg		04/07/21 16:15	04/10/21 04:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/07/21 16:15	04/10/21 04:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/07/21 16:15	04/10/21 04:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/07/21 16:15	04/10/21 04:49	1
Total BTEX	0.00222		0.00200		mg/Kg		04/07/21 16:15	04/10/21 04:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	04/07/21 16:15	04/10/21 04:49	1
1,4-Difluorobenzene (Surr)	106		70 - 130	04/07/21 16:15	04/10/21 04:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (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		04/07/21 16:09	04/08/21 18:08	1
Diesel Range Organics (Over C10-C28)	280		49.8		mg/Kg		04/07/21 16:09	04/08/21 18:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/07/21 16:09	04/08/21 18:08	1
Total TPH	280		49.8		mg/Kg		04/07/21 16:09	04/08/21 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	04/07/21 16:09	04/08/21 18:08	1
o-Terphenyl	82		70 - 130	04/07/21 16:09	04/08/21 18:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2320		25.3		mg/Kg			04/18/21 17:51	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Client Sample ID: FS04

Lab Sample ID: 890-494-4

Date Collected: 04/06/21 13:15

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/07/21 16:15	04/10/21 05:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/07/21 16:15	04/10/21 05:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/07/21 16:15	04/10/21 05:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/07/21 16:15	04/10/21 05:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/07/21 16:15	04/10/21 05:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/07/21 16:15	04/10/21 05:14	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		04/07/21 16:15	04/10/21 05:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	04/07/21 16:15	04/10/21 05:14	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/07/21 16:15	04/10/21 05:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	74.9		49.8		mg/Kg		04/07/21 16:09	04/08/21 18:29	1
Diesel Range Organics (Over C10-C28)	54.0		49.8		mg/Kg		04/07/21 16:09	04/08/21 18:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/07/21 16:09	04/08/21 18:29	1
Total TPH	129		49.8		mg/Kg		04/07/21 16:09	04/08/21 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	04/07/21 16:09	04/08/21 18:29	1
o-Terphenyl	94		70 - 130	04/07/21 16:09	04/08/21 18:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3860		24.9		mg/Kg			04/18/21 17:57	5

Client Sample ID: FS05

Lab Sample ID: 890-494-5

Date Collected: 04/06/21 13:20

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/07/21 16:15	04/10/21 05:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/07/21 16:15	04/10/21 05:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/07/21 16:15	04/10/21 05:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/07/21 16:15	04/10/21 05:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/07/21 16:15	04/10/21 05:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/07/21 16:15	04/10/21 05:41	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/07/21 16:15	04/10/21 05:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	04/07/21 16:15	04/10/21 05:41	1
1,4-Difluorobenzene (Surr)	90		70 - 130	04/07/21 16:15	04/10/21 05:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Client Sample ID: FS05

Lab Sample ID: 890-494-5

Date Collected: 04/06/21 13:20

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/21 16:09	04/08/21 18:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/21 16:09	04/08/21 18:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/21 16:09	04/08/21 18:50	1
Total TPH	<49.9	U	49.9		mg/Kg		04/07/21 16:09	04/08/21 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	04/07/21 16:09	04/08/21 18:50	1
o-Terphenyl	94		70 - 130	04/07/21 16:09	04/08/21 18:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	672		24.9		mg/Kg			04/18/21 18:13	5

Client Sample ID: FS06

Lab Sample ID: 890-494-6

Date Collected: 04/06/21 13:25

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1 F2	0.00200		mg/Kg		04/09/21 11:34	04/09/21 23:06	1
Toluene	<0.00200	U F1 F2	0.00200		mg/Kg		04/09/21 11:34	04/09/21 23:06	1
Ethylbenzene	<0.00200	U F1 F2	0.00200		mg/Kg		04/09/21 11:34	04/09/21 23:06	1
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.00399		mg/Kg		04/09/21 11:34	04/09/21 23:06	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		04/09/21 11:34	04/09/21 23:06	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		04/09/21 11:34	04/09/21 23:06	1
Total BTEX	<0.00200	U F1 F2	0.00200		mg/Kg		04/09/21 11:34	04/09/21 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/09/21 11:34	04/09/21 23:06	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/09/21 11:34	04/09/21 23:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	54.6		50.0		mg/Kg		04/07/21 16:09	04/08/21 19:32	1
Diesel Range Organics (Over C10-C28)	137		50.0		mg/Kg		04/07/21 16:09	04/08/21 19:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 19:32	1
Total TPH	192		50.0		mg/Kg		04/07/21 16:09	04/08/21 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	04/07/21 16:09	04/08/21 19:32	1
o-Terphenyl	89		70 - 130	04/07/21 16:09	04/08/21 19:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1330		24.8		mg/Kg			04/18/21 18:19	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Client Sample ID: FS07

Lab Sample ID: 890-494-7

Date Collected: 04/06/21 13:30

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/09/21 11:34	04/09/21 23:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/09/21 11:34	04/09/21 23:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/09/21 11:34	04/09/21 23:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/09/21 11:34	04/09/21 23:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/09/21 11:34	04/09/21 23:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/09/21 11:34	04/09/21 23:27	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		04/09/21 11:34	04/09/21 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/09/21 11:34	04/09/21 23:27	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/09/21 11:34	04/09/21 23:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 19:53	1
Diesel Range Organics (Over C10-C28)	86.2		50.0		mg/Kg		04/07/21 16:09	04/08/21 19:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 19:53	1
Total TPH	86.2		50.0		mg/Kg		04/07/21 16:09	04/08/21 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	04/07/21 16:09	04/08/21 19:53	1
o-Terphenyl	94		70 - 130	04/07/21 16:09	04/08/21 19:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3680		24.8		mg/Kg			04/18/21 18:36	5

Client Sample ID: FS08

Lab Sample ID: 890-494-8

Date Collected: 04/06/21 13:35

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/09/21 23:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/09/21 23:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/09/21 23:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/09/21 11:34	04/09/21 23:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/09/21 23:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/09/21 11:34	04/09/21 23:47	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/09/21 23:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/09/21 11:34	04/09/21 23:47	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/09/21 11:34	04/09/21 23:47	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Client Sample ID: FS08

Lab Sample ID: 890-494-8

Date Collected: 04/06/21 13:35

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/21 16:09	04/08/21 20:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/21 16:09	04/08/21 20:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/21 16:09	04/08/21 20:14	1
Total TPH	<49.9	U	49.9		mg/Kg		04/07/21 16:09	04/08/21 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	04/07/21 16:09	04/08/21 20:14	1
o-Terphenyl	94		70 - 130	04/07/21 16:09	04/08/21 20:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2760		25.2		mg/Kg			04/18/21 18:41	5

Client Sample ID: FS09

Lab Sample ID: 890-494-9

Date Collected: 04/06/21 13:40

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/10/21 00:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/10/21 00:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/10/21 00:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/09/21 11:34	04/10/21 00:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/10/21 00:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/09/21 11:34	04/10/21 00:07	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/10/21 00:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	04/09/21 11:34	04/10/21 00:07	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/09/21 11:34	04/10/21 00:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 20:35	1
Diesel Range Organics (Over C10-C28)	282		50.0		mg/Kg		04/07/21 16:09	04/08/21 20:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 20:35	1
Total TPH	282		50.0		mg/Kg		04/07/21 16:09	04/08/21 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	04/07/21 16:09	04/08/21 20:35	1
o-Terphenyl	89		70 - 130	04/07/21 16:09	04/08/21 20:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7200		25.1		mg/Kg			04/18/21 18:47	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Client Sample ID: FS10

Lab Sample ID: 890-494-10

Date Collected: 04/06/21 13:45

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/09/21 11:34	04/10/21 03:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/09/21 11:34	04/10/21 03:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/09/21 11:34	04/10/21 03:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/09/21 11:34	04/10/21 03:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/09/21 11:34	04/10/21 03:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/09/21 11:34	04/10/21 03:32	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		04/09/21 11:34	04/10/21 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	04/09/21 11:34	04/10/21 03:32	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/09/21 11:34	04/10/21 03:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 20:56	1
Diesel Range Organics (Over C10-C28)	152		50.0		mg/Kg		04/07/21 16:09	04/08/21 20:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 20:56	1
Total TPH	152		50.0		mg/Kg		04/07/21 16:09	04/08/21 20:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	04/07/21 16:09	04/08/21 20:56	1
o-Terphenyl	89		70 - 130	04/07/21 16:09	04/08/21 20:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2300		25.2		mg/Kg			04/18/21 18:52	5

Client Sample ID: FS11

Lab Sample ID: 890-494-11

Date Collected: 04/06/21 13:50

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/09/21 11:34	04/10/21 03:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/09/21 11:34	04/10/21 03:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/09/21 11:34	04/10/21 03:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/09/21 11:34	04/10/21 03:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/09/21 11:34	04/10/21 03:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/09/21 11:34	04/10/21 03:53	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		04/09/21 11:34	04/10/21 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	04/09/21 11:34	04/10/21 03:53	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/09/21 11:34	04/10/21 03:53	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Client Sample ID: FS11

Lab Sample ID: 890-494-11

Date Collected: 04/06/21 13:50

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 21:17	1
Diesel Range Organics (Over C10-C28)	141		50.0		mg/Kg		04/07/21 16:09	04/08/21 21:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 21:17	1
Total TPH	141		50.0		mg/Kg		04/07/21 16:09	04/08/21 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	04/07/21 16:09	04/08/21 21:17	1
o-Terphenyl	89		70 - 130	04/07/21 16:09	04/08/21 21:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3000		50.5		mg/Kg			04/19/21 11:31	10

Client Sample ID: FS12

Lab Sample ID: 890-494-12

Date Collected: 04/06/21 13:55

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/09/21 11:34	04/10/21 04:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/09/21 11:34	04/10/21 04:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/09/21 11:34	04/10/21 04:13	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/09/21 11:34	04/10/21 04:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/09/21 11:34	04/10/21 04:13	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/09/21 11:34	04/10/21 04:13	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		04/09/21 11:34	04/10/21 04:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/09/21 11:34	04/10/21 04:13	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/09/21 11:34	04/10/21 04:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	61.6		50.1		mg/Kg		04/07/21 16:09	04/08/21 21:38	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/07/21 16:09	04/08/21 21:38	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/07/21 16:09	04/08/21 21:38	1
Total TPH	61.6		50.1		mg/Kg		04/07/21 16:09	04/08/21 21:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	04/07/21 16:09	04/08/21 21:38	1
o-Terphenyl	91		70 - 130	04/07/21 16:09	04/08/21 21:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1650		25.0		mg/Kg			04/18/21 19:03	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Client Sample ID: SW01

Lab Sample ID: 890-494-13

Date Collected: 04/06/21 14:00

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/09/21 11:34	04/10/21 04:34	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/09/21 11:34	04/10/21 04:34	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/09/21 11:34	04/10/21 04:34	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/09/21 11:34	04/10/21 04:34	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/09/21 11:34	04/10/21 04:34	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/09/21 11:34	04/10/21 04:34	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		04/09/21 11:34	04/10/21 04:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	04/09/21 11:34	04/10/21 04:34	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/09/21 11:34	04/10/21 04:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 21:59	1
Diesel Range Organics (Over C10-C28)	135		50.0		mg/Kg		04/07/21 16:09	04/08/21 21:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 21:59	1
Total TPH	135		50.0		mg/Kg		04/07/21 16:09	04/08/21 21:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	04/07/21 16:09	04/08/21 21:59	1
o-Terphenyl	91		70 - 130	04/07/21 16:09	04/08/21 21:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2810		49.9		mg/Kg			04/19/21 11:37	10

Client Sample ID: SW02

Lab Sample ID: 890-494-14

Date Collected: 04/06/21 14:05

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/10/21 04:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/10/21 04:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/10/21 04:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/09/21 11:34	04/10/21 04:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/10/21 04:54	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/09/21 11:34	04/10/21 04:54	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/10/21 04:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	04/09/21 11:34	04/10/21 04:54	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/09/21 11:34	04/10/21 04:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Client Sample ID: SW02

Lab Sample ID: 890-494-14

Date Collected: 04/06/21 14:05

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 22:20	1
Diesel Range Organics (Over C10-C28)	62.2		50.0		mg/Kg		04/07/21 16:09	04/08/21 22:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 22:20	1
Total TPH	62.2		50.0		mg/Kg		04/07/21 16:09	04/08/21 22:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	04/07/21 16:09	04/08/21 22:20	1
o-Terphenyl	81		70 - 130	04/07/21 16:09	04/08/21 22:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1880		25.0		mg/Kg			04/19/21 12:50	5

Client Sample ID: SW03

Lab Sample ID: 890-494-15

Date Collected: 04/06/21 14:10

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/09/21 11:34	04/10/21 05:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/09/21 11:34	04/10/21 05:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/09/21 11:34	04/10/21 05:14	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/09/21 11:34	04/10/21 05:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/09/21 11:34	04/10/21 05:14	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/09/21 11:34	04/10/21 05:14	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		04/09/21 11:34	04/10/21 05:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	04/09/21 11:34	04/10/21 05:14	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/09/21 11:34	04/10/21 05:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	51.7	B	50.0		mg/Kg		04/08/21 11:45	04/10/21 06:37	1
Diesel Range Organics (Over C10-C28)	65.0		50.0		mg/Kg		04/08/21 11:45	04/10/21 06:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/08/21 11:45	04/10/21 06:37	1
Total TPH	117	B	50.0		mg/Kg		04/08/21 11:45	04/10/21 06:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	04/08/21 11:45	04/10/21 06:37	1
o-Terphenyl	104		70 - 130	04/08/21 11:45	04/10/21 06:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	807		24.8		mg/Kg			04/19/21 13:06	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Client Sample ID: SW04

Lab Sample ID: 890-494-16

Date Collected: 04/06/21 14:15

Matrix: Solid

Date Received: 04/07/21 08:35

Sample Depth: - 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/09/21 11:34	04/10/21 05:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/09/21 11:34	04/10/21 05:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/09/21 11:34	04/10/21 05:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/09/21 11:34	04/10/21 05:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/09/21 11:34	04/10/21 05:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/09/21 11:34	04/10/21 05:35	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		04/09/21 11:34	04/10/21 05:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	04/09/21 11:34	04/10/21 05:35	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/09/21 11:34	04/10/21 05:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	54.2	B	49.9		mg/Kg		04/08/21 11:45	04/10/21 06:59	1
Diesel Range Organics (Over C10-C28)	64.5		49.9		mg/Kg		04/08/21 11:45	04/10/21 06:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/08/21 11:45	04/10/21 06:59	1
Total TPH	119	B	49.9		mg/Kg		04/08/21 11:45	04/10/21 06:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	04/08/21 11:45	04/10/21 06:59	1
o-Terphenyl	81		70 - 130	04/08/21 11:45	04/10/21 06:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2110		24.8		mg/Kg			04/19/21 13:12	5

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
890-494-1	FS01	128	106				
890-494-2	FS02	120	104				
890-494-3	FS03	121	106				
890-494-4	FS04	122	108				
890-494-5	FS05	73	90				
890-494-6	FS06	113	94				
890-494-6 MS	FS06	110	101				
890-494-6 MSD	FS06	119	102				
890-494-7	FS07	104	96				
890-494-8	FS08	113	97				
890-494-9	FS09	117	93				
890-494-10	FS10	120	98				
890-494-11	FS11	116	103				
890-494-12	FS12	109	94				
890-494-13	SW01	116	99				
890-494-14	SW02	118	100				
890-494-15	SW03	114	99				
890-494-16	SW04	119	99				
LCS 880-1477/1-A	Lab Control Sample	105	103				
LCS 880-1572/1-A	Lab Control Sample	101	98				
LCSD 880-1477/2-A	Lab Control Sample Dup	116	117				
LCSD 880-1572/2-A	Lab Control Sample Dup	99	102				
MB 880-1477/5-A	Method Blank	70	88				
MB 880-1560/5-A	Method Blank	102	100				
MB 880-1572/5-A	Method Blank	100	99				

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 Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
890-494-1	FS01	92	86				
890-494-2	FS02	99	94				
890-494-3	FS03	88	82				
890-494-4	FS04	102	94				
890-494-5	FS05	97	94				
890-494-6	FS06	96	89				
890-494-7	FS07	99	94				
890-494-8	FS08	97	94				
890-494-9	FS09	96	89				
890-494-10	FS10	98	89				
890-494-11	FS11	92	89				
890-494-12	FS12	96	91				
890-494-13	SW01	100	91				
890-494-14	SW02	89	81				

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WPX Energy Production LLC

Job ID: 890-494-1

Project/Site: RDX 21-23

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-494-15	SW03	108	104
890-494-16	SW04	81	81
LCS 880-1475/2-A	Lab Control Sample	102	96
LCS 880-1516/2-A	Lab Control Sample	101	98
LCSD 880-1475/3-A	Lab Control Sample Dup	106	104
LCSD 880-1516/3-A	Lab Control Sample Dup	99	94
MB 880-1475/1-A	Method Blank	100	107
MB 880-1516/1-A	Method Blank	102	112

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1477/5-A

Matrix: Solid

Analysis Batch: 1603

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/07/21 16:15	04/09/21 19:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/07/21 16:15	04/09/21 19:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/07/21 16:15	04/09/21 19:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/07/21 16:15	04/09/21 19:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/07/21 16:15	04/09/21 19:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/07/21 16:15	04/09/21 19:53	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/07/21 16:15	04/09/21 19:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	04/07/21 16:15	04/09/21 19:53	1
1,4-Difluorobenzene (Surr)	88		70 - 130	04/07/21 16:15	04/09/21 19:53	1

Lab Sample ID: LCS 880-1477/1-A

Matrix: Solid

Analysis Batch: 1603

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1007		mg/Kg		101	70 - 130
Toluene	0.100	0.1078		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.09955		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2038		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1115		mg/Kg		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-1477/2-A

Matrix: Solid

Analysis Batch: 1603

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1477

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1110		mg/Kg		111	70 - 130	10	35
Toluene	0.100	0.1145		mg/Kg		114	70 - 130	6	35
Ethylbenzene	0.100	0.1091		mg/Kg		109	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2236		mg/Kg		112	70 - 130	9	35
o-Xylene	0.100	0.1223		mg/Kg		122	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: MB 880-1560/5-A

Matrix: Solid

Analysis Batch: 1562

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1560

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/08/21 14:00	04/09/21 12:12	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

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

Lab Sample ID: MB 880-1560/5-A

Matrix: Solid

Analysis Batch: 1562

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1560

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		04/08/21 14:00	04/09/21 12:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/08/21 14:00	04/09/21 12:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/08/21 14:00	04/09/21 12:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/08/21 14:00	04/09/21 12:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/08/21 14:00	04/09/21 12:12	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/08/21 14:00	04/09/21 12:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/08/21 14:00	04/09/21 12:12	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/08/21 14:00	04/09/21 12:12	1

Lab Sample ID: MB 880-1572/5-A

Matrix: Solid

Analysis Batch: 1562

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/09/21 22:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/09/21 22:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/09/21 22:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/09/21 11:34	04/09/21 22:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/09/21 22:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/09/21 11:34	04/09/21 22:45	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/09/21 11:34	04/09/21 22:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/09/21 11:34	04/09/21 22:45	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/09/21 11:34	04/09/21 22:45	1

Lab Sample ID: LCS 880-1572/1-A

Matrix: Solid

Analysis Batch: 1562

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1023		mg/Kg		102	70 - 130
Toluene	0.100	0.1011		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1092		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2120		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1049		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

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

Lab Sample ID: LCSD 880-1572/2-A

Matrix: Solid

Analysis Batch: 1562

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1572

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09404		mg/Kg		94	70 - 130	8	35
Toluene	0.100	0.09134		mg/Kg		91	70 - 130	10	35
Ethylbenzene	0.100	0.09400		mg/Kg		94	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.1813		mg/Kg		91	70 - 130	16	35
o-Xylene	0.100	0.08871		mg/Kg		89	70 - 130	17	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-494-6 MS

Matrix: Solid

Analysis Batch: 1562

Client Sample ID: FS06

Prep Type: Total/NA

Prep Batch: 1572

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.100	0.004836	F1	mg/Kg		5	70 - 130		
Toluene	<0.00200	U F1 F2	0.100	0.003825	F1	mg/Kg		4	70 - 130		
Ethylbenzene	<0.00200	U F1 F2	0.100	0.002839	F1	mg/Kg		3	70 - 130		
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.005661	F1	mg/Kg		3	70 - 130		
o-Xylene	<0.00200	U F1	0.100	0.002782	F1	mg/Kg		3	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-494-6 MSD

Matrix: Solid

Analysis Batch: 1562

Client Sample ID: FS06

Prep Type: Total/NA

Prep Batch: 1572

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.101	0.002953	F1 F2	mg/Kg		3	70 - 130	48	35
Toluene	<0.00200	U F1 F2	0.101	0.002195	F1 F2	mg/Kg		2	70 - 130	54	35
Ethylbenzene	<0.00200	U F1 F2	0.101	<0.00202	U F1 F2	mg/Kg		1	70 - 130	69	35
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.202	<0.00404	U F1 F2	mg/Kg		2	70 - 130	54	35
o-Xylene	<0.00200	U F1	0.101	<0.00202	U F1	mg/Kg		2	70 - 130	34	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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QC Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

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

Lab Sample ID: MB 880-1475/1-A

Matrix: Solid

Analysis Batch: 1499

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1475

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 10:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 10:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 10:46	1
Total TPH	<50.0	U	50.0		mg/Kg		04/07/21 16:09	04/08/21 10:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	04/07/21 16:09	04/08/21 10:46	1
o-Terphenyl	107		70 - 130	04/07/21 16:09	04/08/21 10:46	1

Lab Sample ID: LCS 880-1475/2-A

Matrix: Solid

Analysis Batch: 1499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1475

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1099		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1003		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-1475/3-A

Matrix: Solid

Analysis Batch: 1499

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1475

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1170		mg/Kg		117	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1071		mg/Kg		107	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: MB 880-1516/1-A

Matrix: Solid

Analysis Batch: 1566

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	530.5		50.0		mg/Kg		04/08/21 11:45	04/09/21 22:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/08/21 11:45	04/09/21 22:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/08/21 11:45	04/09/21 22:08	1
Total TPH	530.5		50.0		mg/Kg		04/08/21 11:45	04/09/21 22:08	1

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QC Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	04/08/21 11:45	04/09/21 22:08	1
o-Terphenyl	112		70 - 130	04/08/21 11:45	04/09/21 22:08	1

Lab Sample ID: LCS 880-1516/2-A

Matrix: Solid

Analysis Batch: 1566

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1180		mg/Kg		118	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1005		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-1516/3-A

Matrix: Solid

Analysis Batch: 1566

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1516

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1187		mg/Kg		119	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	976.9		mg/Kg		98	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	94		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1729/1-A

Matrix: Solid

Analysis Batch: 1856

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/19/21 12:33	1

Lab Sample ID: LCS 880-1729/2-A

Matrix: Solid

Analysis Batch: 1856

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	251.3		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-1729/3-A

Matrix: Solid

Analysis Batch: 1856

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	251.4		mg/Kg		101	90 - 110	0	20

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QC Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-494-14 MS

Matrix: Solid

Analysis Batch: 1856

Client Sample ID: SW02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1880		1250	3126		mg/Kg		100	90 - 110

Lab Sample ID: 890-494-14 MSD

Matrix: Solid

Analysis Batch: 1856

Client Sample ID: SW02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1880		1250	3127		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-1728/1-A

Matrix: Solid

Analysis Batch: 1898

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/18/21 16:23	1

Lab Sample ID: LCS 880-1728/2-A

Matrix: Solid

Analysis Batch: 1898

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	246.9		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-1728/3-A

Matrix: Solid

Analysis Batch: 1898

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	246.6		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-494-4 MS

Matrix: Solid

Analysis Batch: 1898

Client Sample ID: FS04

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3860		1240	5024		mg/Kg		94	90 - 110

Lab Sample ID: 890-494-4 MSD

Matrix: Solid

Analysis Batch: 1898

Client Sample ID: FS04

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3860		1240	5021		mg/Kg		94	90 - 110	0	20

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QC Association Summary

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

GC VOA

Prep Batch: 1477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-494-1	FS01	Total/NA	Solid	5035	
890-494-2	FS02	Total/NA	Solid	5035	
890-494-3	FS03	Total/NA	Solid	5035	
890-494-4	FS04	Total/NA	Solid	5035	
890-494-5	FS05	Total/NA	Solid	5035	
MB 880-1477/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1477/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1477/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 1560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1560/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 1562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-494-6	FS06	Total/NA	Solid	8021B	1572
890-494-7	FS07	Total/NA	Solid	8021B	1572
890-494-8	FS08	Total/NA	Solid	8021B	1572
890-494-9	FS09	Total/NA	Solid	8021B	1572
890-494-10	FS10	Total/NA	Solid	8021B	1572
890-494-11	FS11	Total/NA	Solid	8021B	1572
890-494-12	FS12	Total/NA	Solid	8021B	1572
890-494-13	SW01	Total/NA	Solid	8021B	1572
890-494-14	SW02	Total/NA	Solid	8021B	1572
890-494-15	SW03	Total/NA	Solid	8021B	1572
890-494-16	SW04	Total/NA	Solid	8021B	1572
MB 880-1560/5-A	Method Blank	Total/NA	Solid	8021B	1560
MB 880-1572/5-A	Method Blank	Total/NA	Solid	8021B	1572
LCS 880-1572/1-A	Lab Control Sample	Total/NA	Solid	8021B	1572
LCSD 880-1572/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1572
890-494-6 MS	FS06	Total/NA	Solid	8021B	1572
890-494-6 MSD	FS06	Total/NA	Solid	8021B	1572

Prep Batch: 1572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-494-6	FS06	Total/NA	Solid	5035	
890-494-7	FS07	Total/NA	Solid	5035	
890-494-8	FS08	Total/NA	Solid	5035	
890-494-9	FS09	Total/NA	Solid	5035	
890-494-10	FS10	Total/NA	Solid	5035	
890-494-11	FS11	Total/NA	Solid	5035	
890-494-12	FS12	Total/NA	Solid	5035	
890-494-13	SW01	Total/NA	Solid	5035	
890-494-14	SW02	Total/NA	Solid	5035	
890-494-15	SW03	Total/NA	Solid	5035	
890-494-16	SW04	Total/NA	Solid	5035	
MB 880-1572/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1572/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1572/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-494-6 MS	FS06	Total/NA	Solid	5035	
890-494-6 MSD	FS06	Total/NA	Solid	5035	

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QC Association Summary

Client: WPX Energy Production LLC

Job ID: 890-494-1

Project/Site: RDX 21-23

GC VOA

Analysis Batch: 1603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-494-1	FS01	Total/NA	Solid	8021B	1477
890-494-2	FS02	Total/NA	Solid	8021B	1477
890-494-3	FS03	Total/NA	Solid	8021B	1477
890-494-4	FS04	Total/NA	Solid	8021B	1477
890-494-5	FS05	Total/NA	Solid	8021B	1477
MB 880-1477/5-A	Method Blank	Total/NA	Solid	8021B	1477
LCS 880-1477/1-A	Lab Control Sample	Total/NA	Solid	8021B	1477
LCSD 880-1477/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1477

GC Semi VOA

Prep Batch: 1475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-494-1	FS01	Total/NA	Solid	8015NM Prep	
890-494-2	FS02	Total/NA	Solid	8015NM Prep	
890-494-3	FS03	Total/NA	Solid	8015NM Prep	
890-494-4	FS04	Total/NA	Solid	8015NM Prep	
890-494-5	FS05	Total/NA	Solid	8015NM Prep	
890-494-6	FS06	Total/NA	Solid	8015NM Prep	
890-494-7	FS07	Total/NA	Solid	8015NM Prep	
890-494-8	FS08	Total/NA	Solid	8015NM Prep	
890-494-9	FS09	Total/NA	Solid	8015NM Prep	
890-494-10	FS10	Total/NA	Solid	8015NM Prep	
890-494-11	FS11	Total/NA	Solid	8015NM Prep	
890-494-12	FS12	Total/NA	Solid	8015NM Prep	
890-494-13	SW01	Total/NA	Solid	8015NM Prep	
890-494-14	SW02	Total/NA	Solid	8015NM Prep	
MB 880-1475/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1475/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1475/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-494-1	FS01	Total/NA	Solid	8015B NM	1475
890-494-2	FS02	Total/NA	Solid	8015B NM	1475
890-494-3	FS03	Total/NA	Solid	8015B NM	1475
890-494-4	FS04	Total/NA	Solid	8015B NM	1475
890-494-5	FS05	Total/NA	Solid	8015B NM	1475
890-494-6	FS06	Total/NA	Solid	8015B NM	1475
890-494-7	FS07	Total/NA	Solid	8015B NM	1475
890-494-8	FS08	Total/NA	Solid	8015B NM	1475
890-494-9	FS09	Total/NA	Solid	8015B NM	1475
890-494-10	FS10	Total/NA	Solid	8015B NM	1475
890-494-11	FS11	Total/NA	Solid	8015B NM	1475
890-494-12	FS12	Total/NA	Solid	8015B NM	1475
890-494-13	SW01	Total/NA	Solid	8015B NM	1475
890-494-14	SW02	Total/NA	Solid	8015B NM	1475
MB 880-1475/1-A	Method Blank	Total/NA	Solid	8015B NM	1475
LCS 880-1475/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1475
LCSD 880-1475/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1475

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QC Association Summary

Client: WPX Energy Production LLC

Job ID: 890-494-1

Project/Site: RDX 21-23

GC Semi VOA

Prep Batch: 1516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-494-15	SW03	Total/NA	Solid	8015NM Prep	
890-494-16	SW04	Total/NA	Solid	8015NM Prep	
MB 880-1516/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1516/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1516/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-494-15	SW03	Total/NA	Solid	8015B NM	1516
890-494-16	SW04	Total/NA	Solid	8015B NM	1516
MB 880-1516/1-A	Method Blank	Total/NA	Solid	8015B NM	1516
LCS 880-1516/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1516
LCSD 880-1516/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1516

HPLC/IC

Leach Batch: 1728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-494-1	FS01	Soluble	Solid	DI Leach	
890-494-2	FS02	Soluble	Solid	DI Leach	
890-494-3	FS03	Soluble	Solid	DI Leach	
890-494-4	FS04	Soluble	Solid	DI Leach	
890-494-5	FS05	Soluble	Solid	DI Leach	
890-494-6	FS06	Soluble	Solid	DI Leach	
890-494-7	FS07	Soluble	Solid	DI Leach	
890-494-8	FS08	Soluble	Solid	DI Leach	
890-494-9	FS09	Soluble	Solid	DI Leach	
890-494-10	FS10	Soluble	Solid	DI Leach	
890-494-11	FS11	Soluble	Solid	DI Leach	
890-494-12	FS12	Soluble	Solid	DI Leach	
890-494-13	SW01	Soluble	Solid	DI Leach	
MB 880-1728/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1728/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1728/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-494-4 MS	FS04	Soluble	Solid	DI Leach	
890-494-4 MSD	FS04	Soluble	Solid	DI Leach	

Leach Batch: 1729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-494-14	SW02	Soluble	Solid	DI Leach	
890-494-15	SW03	Soluble	Solid	DI Leach	
890-494-16	SW04	Soluble	Solid	DI Leach	
MB 880-1729/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1729/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1729/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-494-14 MS	SW02	Soluble	Solid	DI Leach	
890-494-14 MSD	SW02	Soluble	Solid	DI Leach	

Analysis Batch: 1856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-494-14	SW02	Soluble	Solid	300.0	1729

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

HPLC/IC (Continued)

Analysis Batch: 1856 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-494-15	SW03	Soluble	Solid	300.0	1729
890-494-16	SW04	Soluble	Solid	300.0	1729
MB 880-1729/1-A	Method Blank	Soluble	Solid	300.0	1729
LCS 880-1729/2-A	Lab Control Sample	Soluble	Solid	300.0	1729
LCSD 880-1729/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1729
890-494-14 MS	SW02	Soluble	Solid	300.0	1729
890-494-14 MSD	SW02	Soluble	Solid	300.0	1729

Analysis Batch: 1898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-494-1	FS01	Soluble	Solid	300.0	1728
890-494-2	FS02	Soluble	Solid	300.0	1728
890-494-3	FS03	Soluble	Solid	300.0	1728
890-494-4	FS04	Soluble	Solid	300.0	1728
890-494-5	FS05	Soluble	Solid	300.0	1728
890-494-6	FS06	Soluble	Solid	300.0	1728
890-494-7	FS07	Soluble	Solid	300.0	1728
890-494-8	FS08	Soluble	Solid	300.0	1728
890-494-9	FS09	Soluble	Solid	300.0	1728
890-494-10	FS10	Soluble	Solid	300.0	1728
890-494-11	FS11	Soluble	Solid	300.0	1728
890-494-12	FS12	Soluble	Solid	300.0	1728
890-494-13	SW01	Soluble	Solid	300.0	1728
MB 880-1728/1-A	Method Blank	Soluble	Solid	300.0	1728
LCS 880-1728/2-A	Lab Control Sample	Soluble	Solid	300.0	1728
LCSD 880-1728/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1728
890-494-4 MS	FS04	Soluble	Solid	300.0	1728
890-494-4 MSD	FS04	Soluble	Solid	300.0	1728

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Client Sample ID: FS01

Lab Sample ID: 890-494-1

Date Collected: 04/06/21 13:00

Matrix: Solid

Date Received: 04/07/21 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1477	04/07/21 16:15	KL	XM
Total/NA	Analysis	8021B		1	1603	04/10/21 03:58	MR	XM
Total/NA	Prep	8015NM Prep			1475	04/07/21 16:09	DM	XM
Total/NA	Analysis	8015B NM		1	1499	04/08/21 17:26	AJ	XM
Soluble	Leach	DI Leach			1728	04/13/21 12:41	SC	XM
Soluble	Analysis	300.0		5	1898	04/18/21 17:40	WP	XM

Client Sample ID: FS02

Lab Sample ID: 890-494-2

Date Collected: 04/06/21 13:05

Matrix: Solid

Date Received: 04/07/21 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1477	04/07/21 16:15	KL	XM
Total/NA	Analysis	8021B		1	1603	04/10/21 04:23	MR	XM
Total/NA	Prep	8015NM Prep			1475	04/07/21 16:09	DM	XM
Total/NA	Analysis	8015B NM		1	1499	04/08/21 17:47	AJ	XM
Soluble	Leach	DI Leach			1728	04/13/21 12:41	SC	XM
Soluble	Analysis	300.0		5	1898	04/18/21 17:46	WP	XM

Client Sample ID: FS03

Lab Sample ID: 890-494-3

Date Collected: 04/06/21 13:10

Matrix: Solid

Date Received: 04/07/21 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1477	04/07/21 16:15	KL	XM
Total/NA	Analysis	8021B		1	1603	04/10/21 04:49	MR	XM
Total/NA	Prep	8015NM Prep			1475	04/07/21 16:09	DM	XM
Total/NA	Analysis	8015B NM		1	1499	04/08/21 18:08	AJ	XM
Soluble	Leach	DI Leach			1728	04/13/21 12:41	SC	XM
Soluble	Analysis	300.0		5	1898	04/18/21 17:51	WP	XM

Client Sample ID: FS04

Lab Sample ID: 890-494-4

Date Collected: 04/06/21 13:15

Matrix: Solid

Date Received: 04/07/21 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1477	04/07/21 16:15	KL	XM
Total/NA	Analysis	8021B		1	1603	04/10/21 05:14	MR	XM
Total/NA	Prep	8015NM Prep			1475	04/07/21 16:09	DM	XM
Total/NA	Analysis	8015B NM		1	1499	04/08/21 18:29	AJ	XM
Soluble	Leach	DI Leach			1728	04/13/21 12:41	SC	XM
Soluble	Analysis	300.0		5	1898	04/18/21 17:57	WP	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Client Sample ID: FS05

Lab Sample ID: 890-494-5

Date Collected: 04/06/21 13:20

Matrix: Solid

Date Received: 04/07/21 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1477	04/07/21 16:15	KL	XM
Total/NA	Analysis	8021B		1	1603	04/10/21 05:41	MR	XM
Total/NA	Prep	8015NM Prep			1475	04/07/21 16:09	DM	XM
Total/NA	Analysis	8015B NM		1	1499	04/08/21 18:50	AJ	XM
Soluble	Leach	DI Leach			1728	04/13/21 12:41	SC	XM
Soluble	Analysis	300.0		5	1898	04/18/21 18:13	WP	XM

Client Sample ID: FS06

Lab Sample ID: 890-494-6

Date Collected: 04/06/21 13:25

Matrix: Solid

Date Received: 04/07/21 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1572	04/09/21 11:34	MR	XM
Total/NA	Analysis	8021B		1	1562	04/09/21 23:06	MR	XM
Total/NA	Prep	8015NM Prep			1475	04/07/21 16:09	DM	XM
Total/NA	Analysis	8015B NM		1	1499	04/08/21 19:32	AJ	XM
Soluble	Leach	DI Leach			1728	04/13/21 12:41	SC	XM
Soluble	Analysis	300.0		5	1898	04/18/21 18:19	WP	XM

Client Sample ID: FS07

Lab Sample ID: 890-494-7

Date Collected: 04/06/21 13:30

Matrix: Solid

Date Received: 04/07/21 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1572	04/09/21 11:34	MR	XM
Total/NA	Analysis	8021B		1	1562	04/09/21 23:27	MR	XM
Total/NA	Prep	8015NM Prep			1475	04/07/21 16:09	DM	XM
Total/NA	Analysis	8015B NM		1	1499	04/08/21 19:53	AJ	XM
Soluble	Leach	DI Leach			1728	04/13/21 12:41	SC	XM
Soluble	Analysis	300.0		5	1898	04/18/21 18:36	WP	XM

Client Sample ID: FS08

Lab Sample ID: 890-494-8

Date Collected: 04/06/21 13:35

Matrix: Solid

Date Received: 04/07/21 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1572	04/09/21 11:34	MR	XM
Total/NA	Analysis	8021B		1	1562	04/09/21 23:47	MR	XM
Total/NA	Prep	8015NM Prep			1475	04/07/21 16:09	DM	XM
Total/NA	Analysis	8015B NM		1	1499	04/08/21 20:14	AJ	XM
Soluble	Leach	DI Leach			1728	04/13/21 12:41	SC	XM
Soluble	Analysis	300.0		5	1898	04/18/21 18:41	WP	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Client Sample ID: FS09

Lab Sample ID: 890-494-9

Date Collected: 04/06/21 13:40

Matrix: Solid

Date Received: 04/07/21 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1572	04/09/21 11:34	MR	XM
Total/NA	Analysis	8021B		1	1562	04/10/21 00:07	MR	XM
Total/NA	Prep	8015NM Prep			1475	04/07/21 16:09	DM	XM
Total/NA	Analysis	8015B NM		1	1499	04/08/21 20:35	AJ	XM
Soluble	Leach	DI Leach			1728	04/13/21 12:41	SC	XM
Soluble	Analysis	300.0		5	1898	04/18/21 18:47	WP	XM

Client Sample ID: FS10

Lab Sample ID: 890-494-10

Date Collected: 04/06/21 13:45

Matrix: Solid

Date Received: 04/07/21 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1572	04/09/21 11:34	MR	XM
Total/NA	Analysis	8021B		1	1562	04/10/21 03:32	MR	XM
Total/NA	Prep	8015NM Prep			1475	04/07/21 16:09	DM	XM
Total/NA	Analysis	8015B NM		1	1499	04/08/21 20:56	AJ	XM
Soluble	Leach	DI Leach			1728	04/13/21 12:41	SC	XM
Soluble	Analysis	300.0		5	1898	04/18/21 18:52	WP	XM

Client Sample ID: FS11

Lab Sample ID: 890-494-11

Date Collected: 04/06/21 13:50

Matrix: Solid

Date Received: 04/07/21 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1572	04/09/21 11:34	MR	XM
Total/NA	Analysis	8021B		1	1562	04/10/21 03:53	MR	XM
Total/NA	Prep	8015NM Prep			1475	04/07/21 16:09	DM	XM
Total/NA	Analysis	8015B NM		1	1499	04/08/21 21:17	AJ	XM
Soluble	Leach	DI Leach			1728	04/13/21 12:41	SC	XM
Soluble	Analysis	300.0		10	1898	04/19/21 11:31	WP	XM

Client Sample ID: FS12

Lab Sample ID: 890-494-12

Date Collected: 04/06/21 13:55

Matrix: Solid

Date Received: 04/07/21 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1572	04/09/21 11:34	MR	XM
Total/NA	Analysis	8021B		1	1562	04/10/21 04:13	MR	XM
Total/NA	Prep	8015NM Prep			1475	04/07/21 16:09	DM	XM
Total/NA	Analysis	8015B NM		1	1499	04/08/21 21:38	AJ	XM
Soluble	Leach	DI Leach			1728	04/13/21 12:41	SC	XM
Soluble	Analysis	300.0		5	1898	04/18/21 19:03	WP	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Client Sample ID: SW01

Lab Sample ID: 890-494-13

Date Collected: 04/06/21 14:00

Matrix: Solid

Date Received: 04/07/21 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1572	04/09/21 11:34	MR	XM
Total/NA	Analysis	8021B		1	1562	04/10/21 04:34	MR	XM
Total/NA	Prep	8015NM Prep			1475	04/07/21 16:09	DM	XM
Total/NA	Analysis	8015B NM		1	1499	04/08/21 21:59	AJ	XM
Soluble	Leach	DI Leach			1728	04/13/21 12:41	SC	XM
Soluble	Analysis	300.0		10	1898	04/19/21 11:37	WP	XM

Client Sample ID: SW02

Lab Sample ID: 890-494-14

Date Collected: 04/06/21 14:05

Matrix: Solid

Date Received: 04/07/21 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1572	04/09/21 11:34	MR	XM
Total/NA	Analysis	8021B		1	1562	04/10/21 04:54	MR	XM
Total/NA	Prep	8015NM Prep			1475	04/07/21 16:09	DM	XM
Total/NA	Analysis	8015B NM		1	1499	04/08/21 22:20	AJ	XM
Soluble	Leach	DI Leach			1729	04/13/21 12:45	SC	XM
Soluble	Analysis	300.0		5	1856	04/19/21 12:50	SC	XM

Client Sample ID: SW03

Lab Sample ID: 890-494-15

Date Collected: 04/06/21 14:10

Matrix: Solid

Date Received: 04/07/21 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1572	04/09/21 11:34	MR	XM
Total/NA	Analysis	8021B		1	1562	04/10/21 05:14	MR	XM
Total/NA	Prep	8015NM Prep			1516	04/08/21 11:45	DM	XM
Total/NA	Analysis	8015B NM		1	1566	04/10/21 06:37	AJ	XM
Soluble	Leach	DI Leach			1729	04/13/21 12:45	SC	XM
Soluble	Analysis	300.0		5	1856	04/19/21 13:06	SC	XM

Client Sample ID: SW04

Lab Sample ID: 890-494-16

Date Collected: 04/06/21 14:15

Matrix: Solid

Date Received: 04/07/21 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1572	04/09/21 11:34	MR	XM
Total/NA	Analysis	8021B		1	1562	04/10/21 05:35	MR	XM
Total/NA	Prep	8015NM Prep			1516	04/08/21 11:45	DM	XM
Total/NA	Analysis	8015B NM		1	1566	04/10/21 06:59	AJ	XM
Soluble	Leach	DI Leach			1729	04/13/21 12:45	SC	XM
Soluble	Analysis	300.0		5	1856	04/19/21 13:12	SC	XM

Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

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: RDX 21-23

Job ID: 890-494-1

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

Sample Summary

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-494-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-494-1	FS01	Solid	04/06/21 13:00	04/07/21 08:35	- 1'
890-494-2	FS02	Solid	04/06/21 13:05	04/07/21 08:35	- 1'
890-494-3	FS03	Solid	04/06/21 13:10	04/07/21 08:35	- 1'
890-494-4	FS04	Solid	04/06/21 13:15	04/07/21 08:35	- 1'
890-494-5	FS05	Solid	04/06/21 13:20	04/07/21 08:35	- 1'
890-494-6	FS06	Solid	04/06/21 13:25	04/07/21 08:35	- 1'
890-494-7	FS07	Solid	04/06/21 13:30	04/07/21 08:35	- 1'
890-494-8	FS08	Solid	04/06/21 13:35	04/07/21 08:35	- 1'
890-494-9	FS09	Solid	04/06/21 13:40	04/07/21 08:35	- 1'
890-494-10	FS10	Solid	04/06/21 13:45	04/07/21 08:35	- 1'
890-494-11	FS11	Solid	04/06/21 13:50	04/07/21 08:35	- 1'
890-494-12	FS12	Solid	04/06/21 13:55	04/07/21 08:35	- 1'
890-494-13	SW01	Solid	04/06/21 14:00	04/07/21 08:35	- 1'
890-494-14	SW02	Solid	04/06/21 14:05	04/07/21 08:35	- 1'
890-494-15	SW03	Solid	04/06/21 14:10	04/07/21 08:35	- 1'
890-494-16	SW04	Solid	04/06/21 14:15	04/07/21 08:35	- 1'

Eurofins Xenco, Carlsbad



Environment Testing

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Lynda Laumbach	Bill to: (if different)	
Company Name:	WPX Energy Permian LLC.	Company Name:	
Address:	5315 Bura Vista Dr	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	575-725 1647	Email:	Lynda.Laumbach@wpxenergy.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PAP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	RDX 21-23	Turn Around	Pres. Code
Project Number:		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	
Project Location:	Tyler, DeWitt	Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:		Wellce:	
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Thermometer ID:	FA-MA-001
Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.2
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	5.6
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:	5.4
Total Containers:			



890-494 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Preservative Codes	Sample Comments
FS01	S	4-6-21	13:00	1'	G	1	X Chlorides (EPA 300.6)	None: NO	DI Water: H ₂ O
FS02	S		13:05	1'	G	1	X BTEX (Method 8021)	Cool: Cool	MeOH: Me
FS03	S		13:10	1'	G	1	X TPH (Method 8015)	HCL: HC	HNO ₃ : HN
FS04	S		13:15	1'	G	1		H ₂ SO ₄ : H ₂	NaOH: Na
FS05	S		13:20	1'	G	1		H ₂ PO ₄ : HP	
FS06	S		13:25	1'	G	1		NaHSO ₄ : NABIS	
FS07	S		13:30	1'	G	1		Na ₂ S ₂ O ₅ : NaSO ₃	
FS08	S		13:35	1'	G	1		Zn Acetate+NaOH: Zn	
FS09	S		13:40	1'	G	1		NaOH+Ascorbic Acid: SAPC	
FS10	S		13:45	1'	G	1			

Total 2007 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of 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 negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time



Environment Testing

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

Chain of Custody

Work Order No: _____

Page 6 of 6

Project Manager:			Bill to: (if different)	
Company Name:			Company Name:	
Address:			Address:	
City/State ZIP:			City/State ZIP:	
Phone:			Email:	

Work Order Comments				
Program:	UST/PST <input type="checkbox"/>	PRP <input type="checkbox"/>	Brownfields <input type="checkbox"/>	RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:				
Reporting:	Level II <input type="checkbox"/>	Level III <input type="checkbox"/>	PST/UST <input type="checkbox"/>	TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/>	Adapt <input type="checkbox"/>	Other:	

[illegible]

Waiver, Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xentco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xentco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xentco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xentco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. <i>[Signature]</i>	<i>[Signature]</i>	4-7-21 8:35	2		
3. <i>[Signature]</i>			4		
			6		

DAU-DCOM-0025-000504-0003



Chain of Custody

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

Environment Testing
Xenco

Work Order No: _____

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Project Manager:	Lynda Lavmbach	Bill to: (if different)	
Company Name:	WPX Energy Permian LLC.	Company Name:	
Address:	5315 Bixen Vista Dr	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	575-725 1647	Email:	Lynda.Lavmbach@wpenergy.com

Project Name:	RDX 21-23	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:		Due Date:			
Project Location:		TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Tyler Dominguez	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
P.O. #:		Thermometer ID:	T-AM-007		
		Correction Factor:	-0.2		
		Temperature Reading:	5.6		
		Corrected Temperature:	5.4		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
FS01	S	4-6-21	13:00	1'	G	1	Chlorides (EPA 300.0)		None: NO	
FS02	S		13:05	1'	G	1	TPH (Method 8015)		Cool: Cool	
FS03	S		13:10	1'	G	1	RTX (Method 8021)		HCL: HC	
FS04	S		13:15	1'	G	1			H ₂ SO ₄ : H ₂	
FS05	S		13:20	1'	G	1			H ₃ PO ₄ : HP	
FS06	S		13:25	1'	G	1			NaHSO ₄ : NABIS	
FS07	S		13:30	1'	G	1			Na ₂ S ₂ O ₃ : NaSO ₃	
FS08	S		13:35	1'	G	1			Zn Acetate+NaOH: Zn	
FS09	S		13:40	1'	G	1			NaOH+Ascorbic Acid: SAPC	
FS10	S		13:45	1'	G	1				

Total 2007 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>N. Doe</i>	4-7-21 8:35			
3 <i>[Signature]</i>					
5					

Revised Date 08/25/2020 Rev. 2020.2

Chain of Custody

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

Environment Testing

Xenco

Work Order No:

Page 2 of 2
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Page 2 of 2

Work Order Comments									
Program:	UST/PST	PRP	Brownfields	RRC	Superfund				
State of Project:									
Reporting:	Level II	Level III	PST/AUST	TRRP	Level IV				
Deliverables:	EDD	ADaPT	Other:						

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

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Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$95.00 for each sample submitted to Eurofins, but not analyzed, these terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4-7-21 8:35			

Revised Date: 08/25/2020 Rev: 20202

Chain of Custody

Work Order No: _____

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-820-2000)

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Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	WSP	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carsbad, NM 88220
Phone:	(303) 887-2946	Email:	Spencer.Lo@wsp.com, Kalei.Jennings@wsp.com, Dan.Moir@wsp.com

Project Name:	PLU 13 DTD 903H	Turn Around	
Project Number:	TE012921034	Routine	<input checked="" type="checkbox"/>
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
Temperature (°C):	1.3	Thermometer ID	T-NM-007		
Received Intact:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Correction Factor:	1.6		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Total Containers:	5		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)
SS01	S	4/6/2021	1100	0.5'	1	X	X	X
SS02	S	4/6/2021	1110	0.5'	1	X	X	X
SS03	S	4/6/2021	1120	0.5'	1	X	X	X
SS04	S	4/6/2021	1130	0.5'	1	X	X	X
SS05	S	4/6/2021	1140	0.5'	1	X	X	X

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Spencer Lo</i>	<i>N. Jennings</i>	4-6-21 17:00 ²			
		4-7-21 0800 ⁴			

Revised Date 05/14/18 Rev 2018.1

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Kramer, Jessica	Carrier Tracking No(s)	COC No:	890-153 1					
Client Contact	Phone:	E-Mail	jessica.kramer@eurofinsnet.com		State of Origin:	Page:	Page 1 of 2					
Shipping/Receiving	Company	Eurofins Xenco		Accreditations Required (See note)	NEIAP - Louisiana, NEIAP - Texas	Job #:	890-494-1					
Address	1211 W Florida Ave	Due Date Requested	4/13/2021	Analysis Requested								
City	Midland	TAT Requested (days)										
State, Zip	TX, 79701	PO #:										
Phone:	432-704-5440(Tel)	WO #:										
Email		Project #	88000204									
Project Name	RDX 21-23	SSOW#:										
Site:												
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep Full TPH	8021B/6035FP_Calc BTEX	Total Number of containers	Special Instructions/Note
FS01 (890-494-1)	4/6/21	13 00	Mountain	Solid		X	X	X			1	
FS02 (890-494-2)	4/6/21	13 05	Mountain	Solid		X	X	X			1	
FS03 (890-494-3)	4/6/21	13 10	Mountain	Solid		X	X	X			1	
FS04 (890-494-4)	4/6/21	13 15	Mountain	Solid		X	X	X			1	
FS05 (890-494-5)	4/6/21	13 20	Mountain	Solid		X	X	X			1	
FS06 (890-494-6)	4/6/21	13 25	Mountain	Solid		X	X	X			1	
FS07 (890-494-7)	4/6/21	13 30	Mountain	Solid		X	X	X			1	
FS08 (890-494-8)	4/6/21	13 35	Mountain	Solid		X	X	X			1	
FS09 (890-494-9)	4/6/21	13 40	Mountain	Solid		X	X	X			1	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyze & 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/shipment, 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 compliance to Eurofins Xenco LLC.</p>												
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested I, II, III, IV Other (Specify) Primary Deliverable Rank 2</p> <p>Empty Kit Relinquished by Date Time</p> <p>Relinquished by Date Time Company</p> <p>Relinquished by Date Time Company</p> <p>Relinquished by Date Time Company</p> <p>Custody Seals Intact Custody Seal No</p> <p>Δ Yes Δ No</p> <p>Coder Temperature(s) °C and Other Remarks.</p>												
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months</p> <p>Special Instructions/QC Requirements</p>												

Login Sample Receipt Checklist

Client: WPX Energy Production LLC

Job Number: 890-494-1

SDG Number:

Login Number: 494

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: WPX Energy Production LLC

Job Number: 890-494-1

SDG Number:

Login Number: 494

List Number: 2

Creator: Mireles, David

List Source: Eurofins Midland

List Creation: 04/07/21 03:24 PM

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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-577-1
Client Project/Site: RDX 21-23

For:

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

Attn: Lynda Laumbach

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
5/4/2021 1:31:58 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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results through
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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.

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Laboratory Job ID: 890-577-1

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Definitions/Glossary

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

Qualifiers

GC VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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

Case Narrative

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

Job ID: 890-577-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-577-1

Receipt

The samples were received on 4/27/2021 8:30 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 1.6°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: DS01 (890-577-1), DS01 A (890-577-2), DS02 (890-577-3), DS02A (890-577-4), DS03 (890-577-5), DS03A (890-577-6), DS04 (890-577-7), DS04A (890-577-8), DS05 (890-577-9), DS05A (890-577-10), DS06 (890-577-11) and DS06A (890-577-12).

GC VOA

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.

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

Client Sample ID: DS01

Lab Sample ID: 890-577-1

Date Collected: 04/26/21 12:00

Matrix: Solid

Date Received: 04/27/21 08:30

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		04/28/21 13:23	04/29/21 17:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/28/21 13:23	04/29/21 17:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/28/21 13:23	04/29/21 17:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/28/21 13:23	04/29/21 17:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/28/21 13:23	04/29/21 17:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/28/21 13:23	04/29/21 17:39	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/28/21 13:23	04/29/21 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	04/28/21 13:23	04/29/21 17:39	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/28/21 13:23	04/29/21 17:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/28/21 13:56	04/28/21 23:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/28/21 13:56	04/28/21 23:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/28/21 13:56	04/28/21 23:13	1
Total TPH	<49.9	U	49.9		mg/Kg		04/28/21 13:56	04/28/21 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	04/28/21 13:56	04/28/21 23:13	1
o-Terphenyl	107		70 - 130	04/28/21 13:56	04/28/21 23:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	555		5.04		mg/Kg			04/27/21 21:20	1

Client Sample ID: DS01 A

Lab Sample ID: 890-577-2

Date Collected: 04/26/21 12:05

Matrix: Solid

Date Received: 04/27/21 08:30

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		04/28/21 13:23	04/29/21 18:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/28/21 13:23	04/29/21 18:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/28/21 13:23	04/29/21 18:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/28/21 13:23	04/29/21 18:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/28/21 13:23	04/29/21 18:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/28/21 13:23	04/29/21 18:04	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/28/21 13:23	04/29/21 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	04/28/21 13:23	04/29/21 18:04	1
1,4-Difluorobenzene (Surr)	110		70 - 130	04/28/21 13:23	04/29/21 18:04	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

Client Sample ID: DS01 A

Lab Sample ID: 890-577-2

Date Collected: 04/26/21 12:05

Matrix: Solid

Date Received: 04/27/21 08:30

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/28/21 13:56	04/29/21 00:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/28/21 13:56	04/29/21 00:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/28/21 13:56	04/29/21 00:17	1
Total TPH	<49.9	U	49.9		mg/Kg		04/28/21 13:56	04/29/21 00:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	04/28/21 13:56	04/29/21 00:17	1
o-Terphenyl	106		70 - 130	04/28/21 13:56	04/29/21 00:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	592		5.02		mg/Kg			04/27/21 21:35	1

Client Sample ID: DS02

Lab Sample ID: 890-577-3

Date Collected: 04/26/21 12:10

Matrix: Solid

Date Received: 04/27/21 08:30

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200		mg/Kg		04/28/21 13:23	04/29/21 18:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/28/21 13:23	04/29/21 18:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/28/21 13:23	04/29/21 18:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/28/21 13:23	04/29/21 18:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/28/21 13:23	04/29/21 18:29	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/28/21 13:23	04/29/21 18:29	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/28/21 13:23	04/29/21 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	04/28/21 13:23	04/29/21 18:29	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/28/21 13:23	04/29/21 18:29	1

Method: 8015B NM - Diesel Range Organics (DRO) (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		04/28/21 13:56	04/29/21 00:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/28/21 13:56	04/29/21 00:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/28/21 13:56	04/29/21 00:39	1
Total TPH	<49.8	U	49.8		mg/Kg		04/28/21 13:56	04/29/21 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	04/28/21 13:56	04/29/21 00:39	1
o-Terphenyl	107		70 - 130	04/28/21 13:56	04/29/21 00:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	438		4.95		mg/Kg			04/27/21 21:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

Client Sample ID: DS02A

Lab Sample ID: 890-577-4

Date Collected: 04/26/21 12:15

Matrix: Solid

Date Received: 04/27/21 08:30

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *-	0.00202		mg/Kg		04/28/21 13:23	04/29/21 18:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/28/21 13:23	04/29/21 18:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/28/21 13:23	04/29/21 18:55	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/28/21 13:23	04/29/21 18:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/28/21 13:23	04/29/21 18:55	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/28/21 13:23	04/29/21 18:55	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		04/28/21 13:23	04/29/21 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	04/28/21 13:23	04/29/21 18:55	1
1,4-Difluorobenzene (Surr)	110		70 - 130	04/28/21 13:23	04/29/21 18:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/28/21 13:56	04/29/21 01:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/28/21 13:56	04/29/21 01:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/28/21 13:56	04/29/21 01:00	1
Total TPH	<49.9	U	49.9		mg/Kg		04/28/21 13:56	04/29/21 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	04/28/21 13:56	04/29/21 01:00	1
o-Terphenyl	103		70 - 130	04/28/21 13:56	04/29/21 01:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	597		4.99		mg/Kg			04/27/21 21:46	1

Client Sample ID: DS03

Lab Sample ID: 890-577-5

Date Collected: 04/26/21 12:20

Matrix: Solid

Date Received: 04/27/21 08:30

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *-	0.00198		mg/Kg		04/28/21 13:23	04/29/21 19:21	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/28/21 13:23	04/29/21 19:21	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/28/21 13:23	04/29/21 19:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/28/21 13:23	04/29/21 19:21	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/28/21 13:23	04/29/21 19:21	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/28/21 13:23	04/29/21 19:21	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		04/28/21 13:23	04/29/21 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	04/28/21 13:23	04/29/21 19:21	1
1,4-Difluorobenzene (Surr)	112		70 - 130	04/28/21 13:23	04/29/21 19:21	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

Client Sample ID: DS03

Lab Sample ID: 890-577-5

Date Collected: 04/26/21 12:20

Matrix: Solid

Date Received: 04/27/21 08:30

Sample Depth: - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/28/21 13:56	04/29/21 01:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/28/21 13:56	04/29/21 01:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/28/21 13:56	04/29/21 01:21	1
Total TPH	<50.0	U	50.0		mg/Kg		04/28/21 13:56	04/29/21 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	04/28/21 13:56	04/29/21 01:21	1
o-Terphenyl	95		70 - 130	04/28/21 13:56	04/29/21 01:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		5.01		mg/Kg			04/27/21 21:51	1

Client Sample ID: DS03A

Lab Sample ID: 890-577-6

Date Collected: 04/26/21 12:25

Matrix: Solid

Date Received: 04/27/21 08:30

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *	0.00199		mg/Kg		04/28/21 13:23	04/29/21 19:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/28/21 13:23	04/29/21 19:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/28/21 13:23	04/29/21 19:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/28/21 13:23	04/29/21 19:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/28/21 13:23	04/29/21 19:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/28/21 13:23	04/29/21 19:46	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/28/21 13:23	04/29/21 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	04/28/21 13:23	04/29/21 19:46	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/28/21 13:23	04/29/21 19:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/28/21 13:56	04/29/21 01:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/28/21 13:56	04/29/21 01:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/28/21 13:56	04/29/21 01:42	1
Total TPH	<50.0	U	50.0		mg/Kg		04/28/21 13:56	04/29/21 01:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	04/28/21 13:56	04/29/21 01:42	1
o-Terphenyl	99		70 - 130	04/28/21 13:56	04/29/21 01:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	345		5.03		mg/Kg			04/27/21 21:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

Client Sample ID: DS04

Lab Sample ID: 890-577-7

Date Collected: 04/26/21 12:30

Matrix: Solid

Date Received: 04/27/21 08:30

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201		mg/Kg		04/28/21 13:23	04/29/21 20:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/28/21 13:23	04/29/21 20:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/28/21 13:23	04/29/21 20:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/28/21 13:23	04/29/21 20:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/28/21 13:23	04/29/21 20:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/28/21 13:23	04/29/21 20:12	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		04/28/21 13:23	04/29/21 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	04/28/21 13:23	04/29/21 20:12	1
1,4-Difluorobenzene (Surr)	115		70 - 130	04/28/21 13:23	04/29/21 20:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/28/21 13:56	04/29/21 02:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/28/21 13:56	04/29/21 02:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/28/21 13:56	04/29/21 02:04	1
Total TPH	<50.0	U	50.0		mg/Kg		04/28/21 13:56	04/29/21 02:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	04/28/21 13:56	04/29/21 02:04	1
o-Terphenyl	97		70 - 130	04/28/21 13:56	04/29/21 02:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		5.05		mg/Kg			04/27/21 22:01	1

Client Sample ID: DS04A

Lab Sample ID: 890-577-8

Date Collected: 04/26/21 12:35

Matrix: Solid

Date Received: 04/27/21 08:30

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		04/28/21 13:23	04/29/21 20:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/28/21 13:23	04/29/21 20:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/28/21 13:23	04/29/21 20:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/28/21 13:23	04/29/21 20:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/28/21 13:23	04/29/21 20:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/28/21 13:23	04/29/21 20:38	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/28/21 13:23	04/29/21 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	04/28/21 13:23	04/29/21 20:38	1
1,4-Difluorobenzene (Surr)	110		70 - 130	04/28/21 13:23	04/29/21 20:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

Client Sample ID: DS04A

Lab Sample ID: 890-577-8

Date Collected: 04/26/21 12:35

Matrix: Solid

Date Received: 04/27/21 08:30

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/29/21 09:10	05/01/21 04:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/29/21 09:10	05/01/21 04:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/29/21 09:10	05/01/21 04:30	1
Total TPH	<49.9	U	49.9		mg/Kg		04/29/21 09:10	05/01/21 04:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	04/29/21 09:10	05/01/21 04:30	1
o-Terphenyl	122		70 - 130	04/29/21 09:10	05/01/21 04:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	265		5.04		mg/Kg			05/04/21 06:04	1

Client Sample ID: DS05

Lab Sample ID: 890-577-9

Date Collected: 04/26/21 12:40

Matrix: Solid

Date Received: 04/27/21 08:30

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/29/21 10:35	04/30/21 15:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/29/21 10:35	04/30/21 15:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/29/21 10:35	04/30/21 15:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/29/21 10:35	04/30/21 15:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/29/21 10:35	04/30/21 15:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/29/21 10:35	04/30/21 15:09	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/29/21 10:35	04/30/21 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	04/29/21 10:35	04/30/21 15:09	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/29/21 10:35	04/30/21 15:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/29/21 09:10	05/01/21 04:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/29/21 09:10	05/01/21 04:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/29/21 09:10	05/01/21 04:51	1
Total TPH	<49.9	U	49.9		mg/Kg		04/29/21 09:10	05/01/21 04:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	04/29/21 09:10	05/01/21 04:51	1
o-Terphenyl	120		70 - 130	04/29/21 09:10	05/01/21 04:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	313		4.97		mg/Kg			05/04/21 06:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

Client Sample ID: DS05A

Lab Sample ID: 890-577-10

Date Collected: 04/26/21 12:45

Matrix: Solid

Date Received: 04/27/21 08:30

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/29/21 10:35	05/01/21 00:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/29/21 10:35	05/01/21 00:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/29/21 10:35	05/01/21 00:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/29/21 10:35	05/01/21 00:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/29/21 10:35	05/01/21 00:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/29/21 10:35	05/01/21 00:38	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/29/21 10:35	05/01/21 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	04/29/21 10:35	05/01/21 00:38	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/29/21 10:35	05/01/21 00:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/29/21 09:10	05/01/21 05:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/29/21 09:10	05/01/21 05:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/29/21 09:10	05/01/21 05:13	1
Total TPH	<49.9	U	49.9		mg/Kg		04/29/21 09:10	05/01/21 05:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	04/29/21 09:10	05/01/21 05:13	1
o-Terphenyl	121		70 - 130	04/29/21 09:10	05/01/21 05:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	219		4.95		mg/Kg			05/04/21 06:25	1

Client Sample ID: DS06

Lab Sample ID: 890-577-11

Date Collected: 04/26/21 12:50

Matrix: Solid

Date Received: 04/27/21 08:30

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/29/21 10:35	04/30/21 16:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/29/21 10:35	04/30/21 16:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/29/21 10:35	04/30/21 16:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/29/21 10:35	04/30/21 16:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/29/21 10:35	04/30/21 16:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/29/21 10:35	04/30/21 16:00	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/29/21 10:35	04/30/21 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	04/29/21 10:35	04/30/21 16:00	1
1,4-Difluorobenzene (Surr)	111		70 - 130	04/29/21 10:35	04/30/21 16:00	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

Client Sample ID: DS06

Lab Sample ID: 890-577-11

Date Collected: 04/26/21 12:50

Matrix: Solid

Date Received: 04/27/21 08:30

Sample Depth: - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/21 09:10	05/01/21 05:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/21 09:10	05/01/21 05:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/21 09:10	05/01/21 05:34	1
Total TPH	<50.0	U	50.0		mg/Kg		04/29/21 09:10	05/01/21 05:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	49	S1-	70 - 130	04/29/21 09:10	05/01/21 05:34	1
o-Terphenyl	96		70 - 130	04/29/21 09:10	05/01/21 05:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		5.05		mg/Kg			05/04/21 06:31	1

Client Sample ID: DS06A

Lab Sample ID: 890-577-12

Date Collected: 04/26/21 12:55

Matrix: Solid

Date Received: 04/27/21 08:30

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/29/21 10:35	04/30/21 16:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/29/21 10:35	04/30/21 16:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/29/21 10:35	04/30/21 16:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/29/21 10:35	04/30/21 16:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/29/21 10:35	04/30/21 16:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/29/21 10:35	04/30/21 16:34	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/29/21 10:35	04/30/21 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	04/29/21 10:35	04/30/21 16:34	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/29/21 10:35	04/30/21 16:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/29/21 09:10	05/01/21 05:56	1
Diesel Range Organics (Over C10-C28)	59.6		50.1		mg/Kg		04/29/21 09:10	05/01/21 05:56	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/29/21 09:10	05/01/21 05:56	1
Total TPH	59.6		50.1		mg/Kg		04/29/21 09:10	05/01/21 05:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130	04/29/21 09:10	05/01/21 05:56	1
o-Terphenyl	131	S1+	70 - 130	04/29/21 09:10	05/01/21 05:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	153		5.05		mg/Kg			05/04/21 06:36	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-577-1	DS01	128	99
890-577-2	DS01 A	122	110
890-577-3	DS02	122	108
890-577-4	DS02A	122	110
890-577-5	DS03	130	112
890-577-6	DS03A	119	108
890-577-7	DS04	124	115
890-577-8	DS04A	126	110
890-577-9	DS05	139 S1+	94
890-577-9 MS	DS05	120	117
890-577-9 MSD	DS05	114	110
890-577-10	DS05A	111	96
890-577-11	DS06	143 S1+	111
890-577-12	DS06A	127	99
LCS 880-2450/1-A	Lab Control Sample	126	82
LCS 880-2477/1-A	Lab Control Sample	109	113
LCSD 880-2450/2-A	Lab Control Sample Dup	114	111
LCSD 880-2477/2-A	Lab Control Sample Dup	112	105
MB 880-2428/5-A	Method Blank	70	93
MB 880-2450/5-A	Method Blank	77	85
MB 880-2477/5-A	Method Blank	75	88
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 Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-577-1	DS01	108	107
890-577-1 MS	DS01	111	96
890-577-1 MSD	DS01	111	95
890-577-2	DS01 A	110	106
890-577-3	DS02	111	107
890-577-4	DS02A	108	103
890-577-5	DS03	101	95
890-577-6	DS03A	102	99
890-577-7	DS04	104	97
890-577-8	DS04A	118	122
890-577-9	DS05	116	120
890-577-10	DS05A	117	121
890-577-11	DS06	49 S1-	96
890-577-12	DS06A	65 S1-	131 S1+
LCS 880-2454/2-A	Lab Control Sample	106	95
LCS 880-2473/2-A	Lab Control Sample	115	113
LCSD 880-2454/3-A	Lab Control Sample Dup	107	96
LCSD 880-2473/3-A	Lab Control Sample Dup	116	113

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WPX Energy Production LLC

Project/Site: RDX 21-23

Job ID: 890-577-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
MB 880-2454/1-A	Method Blank	100	98
MB 880-2473/1-A	Method Blank	115	125
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2428/5-A

Matrix: Solid

Analysis Batch: 2447

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2428

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/28/21 09:49	04/28/21 17:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/28/21 09:49	04/28/21 17:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/28/21 09:49	04/28/21 17:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/28/21 09:49	04/28/21 17:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/28/21 09:49	04/28/21 17:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/28/21 09:49	04/28/21 17:02	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/28/21 09:49	04/28/21 17:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	04/28/21 09:49	04/28/21 17:02	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/28/21 09:49	04/28/21 17:02	1

Lab Sample ID: MB 880-2450/5-A

Matrix: Solid

Analysis Batch: 2447

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/28/21 13:23	04/29/21 11:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/28/21 13:23	04/29/21 11:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/28/21 13:23	04/29/21 11:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/28/21 13:23	04/29/21 11:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/28/21 13:23	04/29/21 11:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/28/21 13:23	04/29/21 11:43	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/28/21 13:23	04/29/21 11:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	04/28/21 13:23	04/29/21 11:43	1
1,4-Difluorobenzene (Surr)	85		70 - 130	04/28/21 13:23	04/29/21 11:43	1

Lab Sample ID: LCS 880-2450/1-A

Matrix: Solid

Analysis Batch: 2447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2450

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.06599	*-	mg/Kg		66	70 - 130
Toluene	0.100	0.08133		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.08957		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1570		mg/Kg		79	70 - 130
o-Xylene	0.100	0.09039		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

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

Lab Sample ID: LCSD 880-2450/2-A

Matrix: Solid

Analysis Batch: 2447

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2450

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08249		mg/Kg		82	70 - 130	22	35
Toluene	0.100	0.09281		mg/Kg		93	70 - 130	13	35
Ethylbenzene	0.100	0.1040		mg/Kg		104	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.1831		mg/Kg		92	70 - 130	15	35
o-Xylene	0.100	0.1055		mg/Kg		106	70 - 130	15	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: MB 880-2477/5-A

Matrix: Solid

Analysis Batch: 2546

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/29/21 10:35	04/30/21 14:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/29/21 10:35	04/30/21 14:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/29/21 10:35	04/30/21 14:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/29/21 10:35	04/30/21 14:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/29/21 10:35	04/30/21 14:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/29/21 10:35	04/30/21 14:43	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/29/21 10:35	04/30/21 14:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	04/29/21 10:35	04/30/21 14:43	1
1,4-Difluorobenzene (Surr)	88		70 - 130	04/29/21 10:35	04/30/21 14:43	1

Lab Sample ID: LCS 880-2477/1-A

Matrix: Solid

Analysis Batch: 2546

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1084		mg/Kg		108	70 - 130
Toluene	0.100	0.1020		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1163		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	0.200	0.2150		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1212		mg/Kg		121	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-2477/2-A

Matrix: Solid

Analysis Batch: 2546

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2477

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1091		mg/Kg		109	70 - 130	1	35

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QC Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

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

Lab Sample ID: LCSD 880-2477/2-A

Matrix: Solid

Analysis Batch: 2546

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2477

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.1152		mg/Kg		115	70 - 130	12	35
Ethylbenzene	0.100	0.1154		mg/Kg		115	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2092		mg/Kg		105	70 - 130	3	35
o-Xylene	0.100	0.1157		mg/Kg		116	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-577-9 MS

Matrix: Solid

Analysis Batch: 2546

Client Sample ID: DS05

Prep Type: Total/NA

Prep Batch: 2477

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.0998	0.09847		mg/Kg		99	70 - 130
Toluene	<0.00200	U	0.0998	0.1090		mg/Kg		109	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.1088		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1966		mg/Kg		99	70 - 130
o-Xylene	<0.00200	U	0.0998	0.1085		mg/Kg		109	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: 890-577-9 MSD

Matrix: Solid

Analysis Batch: 2546

Client Sample ID: DS05

Prep Type: Total/NA

Prep Batch: 2477

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.101	0.1052		mg/Kg		104	70 - 130	7	35
Toluene	<0.00200	U	0.101	0.1165		mg/Kg		115	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.101	0.1141		mg/Kg		113	70 - 130	5	35
m-Xylene & p-Xylene	<0.00399	U	0.202	0.2056		mg/Kg		102	70 - 130	4	35
o-Xylene	<0.00200	U	0.101	0.1153		mg/Kg		114	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

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

Lab Sample ID: MB 880-2454/1-A

Matrix: Solid

Analysis Batch: 2421

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/28/21 13:56	04/28/21 22:08	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

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

Lab Sample ID: MB 880-2454/1-A

Matrix: Solid

Analysis Batch: 2421

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/28/21 13:56	04/28/21 22:08	1
Oil Range Organics (Over C28-C36)	68.05		50.0		mg/Kg		04/28/21 13:56	04/28/21 22:08	1
Total TPH	68.05		50.0		mg/Kg		04/28/21 13:56	04/28/21 22:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	04/28/21 13:56	04/28/21 22:08	1
o-Terphenyl	98		70 - 130	04/28/21 13:56	04/28/21 22:08	1

Lab Sample ID: LCS 880-2454/2-A

Matrix: Solid

Analysis Batch: 2421

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2454

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	934.9		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	846.9		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-2454/3-A

Matrix: Solid

Analysis Batch: 2421

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2454

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1012		mg/Kg		101	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	864.4		mg/Kg		86	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 890-577-1 MS

Matrix: Solid

Analysis Batch: 2421

Client Sample ID: DS01

Prep Type: Total/NA

Prep Batch: 2454

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1097		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	995.2		mg/Kg		100	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	111		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

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

Lab Sample ID: 890-577-1 MS

Matrix: Solid

Analysis Batch: 2421

Client Sample ID: DS01

Prep Type: Total/NA

Prep Batch: 2454

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	96		70 - 130

Lab Sample ID: 890-577-1 MSD

Matrix: Solid

Analysis Batch: 2421

Client Sample ID: DS01

Prep Type: Total/NA

Prep Batch: 2454

	Sample	Sample	Spike	MSD	MSD				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1057		mg/Kg		104	70 - 130	4
Diesel Range Organics (Over C10-C28)	<49.9	U	998	999.3		mg/Kg		100	70 - 130	0

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
<i>o</i> -Terphenyl	95		70 - 130

Lab Sample ID: MB 880-2473/1-A

Matrix: Solid

Analysis Batch: 2527

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2473

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/21 09:10	04/30/21 21:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/21 09:10	04/30/21 21:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/21 09:10	04/30/21 21:47	1
Total TPH	<50.0	U	50.0		mg/Kg		04/29/21 09:10	04/30/21 21:47	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	04/29/21 09:10	04/30/21 21:47	1
<i>o</i> -Terphenyl	125		70 - 130	04/29/21 09:10	04/30/21 21:47	1

Lab Sample ID: LCS 880-2473/2-A

Matrix: Solid

Analysis Batch: 2527

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2473

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1227		mg/Kg		123	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1189		mg/Kg		119	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
<i>o</i> -Terphenyl	113		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

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

Lab Sample ID: LCSD 880-2473/3-A

Matrix: Solid

Analysis Batch: 2527

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2473

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1273		mg/Kg		127	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1201		mg/Kg		120	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	116		70 - 130						
o-Terphenyl	113		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2398/1-A

Matrix: Solid

Analysis Batch: 2415

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/27/21 19:16	1

Lab Sample ID: LCS 880-2398/2-A

Matrix: Solid

Analysis Batch: 2415

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	254.5		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-2398/3-A

Matrix: Solid

Analysis Batch: 2415

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	255.0		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-2602/1-A

Matrix: Solid

Analysis Batch: 2647

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/04/21 04:17	1

Lab Sample ID: LCS 880-2602/2-A

Matrix: Solid

Analysis Batch: 2647

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	247.6		mg/Kg		99	90 - 110		

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QC Sample Results

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-2602/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 2647											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit		
Chloride	250	254.1		mg/Kg		102	90 - 110	3	20		

QC Association Summary

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

GC VOA

Prep Batch: 2428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-2428/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 2447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-577-1	DS01	Total/NA	Solid	8021B	2450
890-577-2	DS01 A	Total/NA	Solid	8021B	2450
890-577-3	DS02	Total/NA	Solid	8021B	2450
890-577-4	DS02A	Total/NA	Solid	8021B	2450
890-577-5	DS03	Total/NA	Solid	8021B	2450
890-577-6	DS03A	Total/NA	Solid	8021B	2450
890-577-7	DS04	Total/NA	Solid	8021B	2450
890-577-8	DS04A	Total/NA	Solid	8021B	2450
MB 880-2428/5-A	Method Blank	Total/NA	Solid	8021B	2428
MB 880-2450/5-A	Method Blank	Total/NA	Solid	8021B	2450
LCS 880-2450/1-A	Lab Control Sample	Total/NA	Solid	8021B	2450
LCSD 880-2450/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2450

Prep Batch: 2450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-577-1	DS01	Total/NA	Solid	5035	
890-577-2	DS01 A	Total/NA	Solid	5035	
890-577-3	DS02	Total/NA	Solid	5035	
890-577-4	DS02A	Total/NA	Solid	5035	
890-577-5	DS03	Total/NA	Solid	5035	
890-577-6	DS03A	Total/NA	Solid	5035	
890-577-7	DS04	Total/NA	Solid	5035	
890-577-8	DS04A	Total/NA	Solid	5035	
MB 880-2450/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2450/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2450/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 2477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-577-9	DS05	Total/NA	Solid	5035	
890-577-10	DS05A	Total/NA	Solid	5035	
890-577-11	DS06	Total/NA	Solid	5035	
890-577-12	DS06A	Total/NA	Solid	5035	
MB 880-2477/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2477/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2477/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-577-9 MS	DS05	Total/NA	Solid	5035	
890-577-9 MSD	DS05	Total/NA	Solid	5035	

Analysis Batch: 2546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-577-9	DS05	Total/NA	Solid	8021B	2477
890-577-10	DS05A	Total/NA	Solid	8021B	2477
890-577-11	DS06	Total/NA	Solid	8021B	2477
890-577-12	DS06A	Total/NA	Solid	8021B	2477
MB 880-2477/5-A	Method Blank	Total/NA	Solid	8021B	2477
LCS 880-2477/1-A	Lab Control Sample	Total/NA	Solid	8021B	2477

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QC Association Summary

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

GC VOA (Continued)

Analysis Batch: 2546 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-2477/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2477
890-577-9 MS	DS05	Total/NA	Solid	8021B	2477
890-577-9 MSD	DS05	Total/NA	Solid	8021B	2477

GC Semi VOA

Analysis Batch: 2421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-577-1	DS01	Total/NA	Solid	8015B NM	2454
890-577-2	DS01 A	Total/NA	Solid	8015B NM	2454
890-577-3	DS02	Total/NA	Solid	8015B NM	2454
890-577-4	DS02A	Total/NA	Solid	8015B NM	2454
890-577-5	DS03	Total/NA	Solid	8015B NM	2454
890-577-6	DS03A	Total/NA	Solid	8015B NM	2454
890-577-7	DS04	Total/NA	Solid	8015B NM	2454
MB 880-2454/1-A	Method Blank	Total/NA	Solid	8015B NM	2454
LCS 880-2454/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2454
LCSD 880-2454/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2454
890-577-1 MS	DS01	Total/NA	Solid	8015B NM	2454
890-577-1 MSD	DS01	Total/NA	Solid	8015B NM	2454

Prep Batch: 2454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-577-1	DS01	Total/NA	Solid	8015NM Prep	
890-577-2	DS01 A	Total/NA	Solid	8015NM Prep	
890-577-3	DS02	Total/NA	Solid	8015NM Prep	
890-577-4	DS02A	Total/NA	Solid	8015NM Prep	
890-577-5	DS03	Total/NA	Solid	8015NM Prep	
890-577-6	DS03A	Total/NA	Solid	8015NM Prep	
890-577-7	DS04	Total/NA	Solid	8015NM Prep	
MB 880-2454/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2454/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2454/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-577-1 MS	DS01	Total/NA	Solid	8015NM Prep	
890-577-1 MSD	DS01	Total/NA	Solid	8015NM Prep	

Prep Batch: 2473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-577-8	DS04A	Total/NA	Solid	8015NM Prep	
890-577-9	DS05	Total/NA	Solid	8015NM Prep	
890-577-10	DS05A	Total/NA	Solid	8015NM Prep	
890-577-11	DS06	Total/NA	Solid	8015NM Prep	
890-577-12	DS06A	Total/NA	Solid	8015NM Prep	
MB 880-2473/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2473/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2473/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 2527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-577-8	DS04A	Total/NA	Solid	8015B NM	2473
890-577-9	DS05	Total/NA	Solid	8015B NM	2473

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QC Association Summary

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

GC Semi VOA (Continued)

Analysis Batch: 2527 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-577-10	DS05A	Total/NA	Solid	8015B NM	2473
890-577-11	DS06	Total/NA	Solid	8015B NM	2473
890-577-12	DS06A	Total/NA	Solid	8015B NM	2473
MB 880-2473/1-A	Method Blank	Total/NA	Solid	8015B NM	2473
LCS 880-2473/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2473
LCSD 880-2473/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2473

HPLC/IC

Leach Batch: 2398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-577-1	DS01	Soluble	Solid	DI Leach	
890-577-2	DS01 A	Soluble	Solid	DI Leach	
890-577-3	DS02	Soluble	Solid	DI Leach	
890-577-4	DS02A	Soluble	Solid	DI Leach	
890-577-5	DS03	Soluble	Solid	DI Leach	
890-577-6	DS03A	Soluble	Solid	DI Leach	
890-577-7	DS04	Soluble	Solid	DI Leach	
MB 880-2398/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2398/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2398/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-577-1	DS01	Soluble	Solid	300.0	2398
890-577-2	DS01 A	Soluble	Solid	300.0	2398
890-577-3	DS02	Soluble	Solid	300.0	2398
890-577-4	DS02A	Soluble	Solid	300.0	2398
890-577-5	DS03	Soluble	Solid	300.0	2398
890-577-6	DS03A	Soluble	Solid	300.0	2398
890-577-7	DS04	Soluble	Solid	300.0	2398
MB 880-2398/1-A	Method Blank	Soluble	Solid	300.0	2398
LCS 880-2398/2-A	Lab Control Sample	Soluble	Solid	300.0	2398
LCSD 880-2398/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2398

Leach Batch: 2602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-577-8	DS04A	Soluble	Solid	DI Leach	
890-577-9	DS05	Soluble	Solid	DI Leach	
890-577-10	DS05A	Soluble	Solid	DI Leach	
890-577-11	DS06	Soluble	Solid	DI Leach	
890-577-12	DS06A	Soluble	Solid	DI Leach	
MB 880-2602/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2602/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2602/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-577-8	DS04A	Soluble	Solid	300.0	2602
890-577-9	DS05	Soluble	Solid	300.0	2602
890-577-10	DS05A	Soluble	Solid	300.0	2602

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QC Association Summary

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

HPLC/IC (Continued)

Analysis Batch: 2647 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-577-11	DS06	Soluble	Solid	300.0	2602
890-577-12	DS06A	Soluble	Solid	300.0	2602
MB 880-2602/1-A	Method Blank	Soluble	Solid	300.0	2602
LCS 880-2602/2-A	Lab Control Sample	Soluble	Solid	300.0	2602
LCSD 880-2602/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2602

Lab Chronicle

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

Client Sample ID: DS01

Lab Sample ID: 890-577-1

Date Collected: 04/26/21 12:00

Matrix: Solid

Date Received: 04/27/21 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2450	04/28/21 13:23	KL	XM
Total/NA	Analysis	8021B		1	2447	04/29/21 17:39	KL	XM
Total/NA	Prep	8015NM Prep			2454	04/28/21 13:56	DM	XM
Total/NA	Analysis	8015B NM		1	2421	04/28/21 23:13	AJ	XM
Soluble	Leach	DI Leach			2398	04/27/21 16:15	SC	XM
Soluble	Analysis	300.0		1	2415	04/27/21 21:20	CH	XM

Client Sample ID: DS01 A

Lab Sample ID: 890-577-2

Date Collected: 04/26/21 12:05

Matrix: Solid

Date Received: 04/27/21 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2450	04/28/21 13:23	KL	XM
Total/NA	Analysis	8021B		1	2447	04/29/21 18:04	KL	XM
Total/NA	Prep	8015NM Prep			2454	04/28/21 13:56	DM	XM
Total/NA	Analysis	8015B NM		1	2421	04/29/21 00:17	AJ	XM
Soluble	Leach	DI Leach			2398	04/27/21 16:15	SC	XM
Soluble	Analysis	300.0		1	2415	04/27/21 21:35	CH	XM

Client Sample ID: DS02

Lab Sample ID: 890-577-3

Date Collected: 04/26/21 12:10

Matrix: Solid

Date Received: 04/27/21 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2450	04/28/21 13:23	KL	XM
Total/NA	Analysis	8021B		1	2447	04/29/21 18:29	KL	XM
Total/NA	Prep	8015NM Prep			2454	04/28/21 13:56	DM	XM
Total/NA	Analysis	8015B NM		1	2421	04/29/21 00:39	AJ	XM
Soluble	Leach	DI Leach			2398	04/27/21 16:15	SC	XM
Soluble	Analysis	300.0		1	2415	04/27/21 21:41	CH	XM

Client Sample ID: DS02A

Lab Sample ID: 890-577-4

Date Collected: 04/26/21 12:15

Matrix: Solid

Date Received: 04/27/21 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2450	04/28/21 13:23	KL	XM
Total/NA	Analysis	8021B		1	2447	04/29/21 18:55	KL	XM
Total/NA	Prep	8015NM Prep			2454	04/28/21 13:56	DM	XM
Total/NA	Analysis	8015B NM		1	2421	04/29/21 01:00	AJ	XM
Soluble	Leach	DI Leach			2398	04/27/21 16:15	SC	XM
Soluble	Analysis	300.0		1	2415	04/27/21 21:46	CH	XM

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Lab Chronicle

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

Client Sample ID: DS03

Lab Sample ID: 890-577-5

Date Collected: 04/26/21 12:20

Matrix: Solid

Date Received: 04/27/21 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2450	04/28/21 13:23	KL	XM
Total/NA	Analysis	8021B		1	2447	04/29/21 19:21	KL	XM
Total/NA	Prep	8015NM Prep			2454	04/28/21 13:56	DM	XM
Total/NA	Analysis	8015B NM		1	2421	04/29/21 01:21	AJ	XM
Soluble	Leach	DI Leach			2398	04/27/21 16:15	SC	XM
Soluble	Analysis	300.0		1	2415	04/27/21 21:51	CH	XM

Client Sample ID: DS03A

Lab Sample ID: 890-577-6

Date Collected: 04/26/21 12:25

Matrix: Solid

Date Received: 04/27/21 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2450	04/28/21 13:23	KL	XM
Total/NA	Analysis	8021B		1	2447	04/29/21 19:46	KL	XM
Total/NA	Prep	8015NM Prep			2454	04/28/21 13:56	DM	XM
Total/NA	Analysis	8015B NM		1	2421	04/29/21 01:42	AJ	XM
Soluble	Leach	DI Leach			2398	04/27/21 16:15	SC	XM
Soluble	Analysis	300.0		1	2415	04/27/21 21:56	CH	XM

Client Sample ID: DS04

Lab Sample ID: 890-577-7

Date Collected: 04/26/21 12:30

Matrix: Solid

Date Received: 04/27/21 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2450	04/28/21 13:23	KL	XM
Total/NA	Analysis	8021B		1	2447	04/29/21 20:12	KL	XM
Total/NA	Prep	8015NM Prep			2454	04/28/21 13:56	DM	XM
Total/NA	Analysis	8015B NM		1	2421	04/29/21 02:04	AJ	XM
Soluble	Leach	DI Leach			2398	04/27/21 16:15	SC	XM
Soluble	Analysis	300.0		1	2415	04/27/21 22:01	CH	XM

Client Sample ID: DS04A

Lab Sample ID: 890-577-8

Date Collected: 04/26/21 12:35

Matrix: Solid

Date Received: 04/27/21 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2450	04/28/21 13:23	KL	XM
Total/NA	Analysis	8021B		1	2447	04/29/21 20:38	KL	XM
Total/NA	Prep	8015NM Prep			2473	04/29/21 09:10	DM	XM
Total/NA	Analysis	8015B NM		1	2527	05/01/21 04:30	AJ	XM
Soluble	Leach	DI Leach			2602	05/03/21 08:47	CH	XM
Soluble	Analysis	300.0		1	2647	05/04/21 06:04	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

Client Sample ID: DS05

Lab Sample ID: 890-577-9

Date Collected: 04/26/21 12:40

Matrix: Solid

Date Received: 04/27/21 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2477	04/29/21 10:35	MR	XM
Total/NA	Analysis	8021B		1	2546	04/30/21 15:09	MR	XM
Total/NA	Prep	8015NM Prep			2473	04/29/21 09:10	DM	XM
Total/NA	Analysis	8015B NM		1	2527	05/01/21 04:51	AJ	XM
Soluble	Leach	DI Leach			2602	05/03/21 08:47	CH	XM
Soluble	Analysis	300.0		1	2647	05/04/21 06:09	CH	XM

Client Sample ID: DS05A

Lab Sample ID: 890-577-10

Date Collected: 04/26/21 12:45

Matrix: Solid

Date Received: 04/27/21 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2477	04/29/21 10:35	MR	XM
Total/NA	Analysis	8021B		1	2546	05/01/21 00:38	MR	XM
Total/NA	Prep	8015NM Prep			2473	04/29/21 09:10	DM	XM
Total/NA	Analysis	8015B NM		1	2527	05/01/21 05:13	AJ	XM
Soluble	Leach	DI Leach			2602	05/03/21 08:47	CH	XM
Soluble	Analysis	300.0		1	2647	05/04/21 06:25	CH	XM

Client Sample ID: DS06

Lab Sample ID: 890-577-11

Date Collected: 04/26/21 12:50

Matrix: Solid

Date Received: 04/27/21 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2477	04/29/21 10:35	MR	XM
Total/NA	Analysis	8021B		1	2546	04/30/21 16:00	MR	XM
Total/NA	Prep	8015NM Prep			2473	04/29/21 09:10	DM	XM
Total/NA	Analysis	8015B NM		1	2527	05/01/21 05:34	AJ	XM
Soluble	Leach	DI Leach			2602	05/03/21 08:47	CH	XM
Soluble	Analysis	300.0		1	2647	05/04/21 06:31	CH	XM

Client Sample ID: DS06A

Lab Sample ID: 890-577-12

Date Collected: 04/26/21 12:55

Matrix: Solid

Date Received: 04/27/21 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2477	04/29/21 10:35	MR	XM
Total/NA	Analysis	8021B		1	2546	04/30/21 16:34	MR	XM
Total/NA	Prep	8015NM Prep			2473	04/29/21 09:10	DM	XM
Total/NA	Analysis	8015B NM		1	2527	05/01/21 05:56	AJ	XM
Soluble	Leach	DI Leach			2602	05/03/21 08:47	CH	XM
Soluble	Analysis	300.0		1	2647	05/04/21 06:36	CH	XM

Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

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: RDX 21-23

Job ID: 890-577-1

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

Eurofins Xenco, Carlsbad

Sample Summary

Client: WPX Energy Production LLC
Project/Site: RDX 21-23

Job ID: 890-577-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-577-1	DS01	Solid	04/26/21 12:00	04/27/21 08:30	- 0.5
890-577-2	DS01 A	Solid	04/26/21 12:05	04/27/21 08:30	- 1
890-577-3	DS02	Solid	04/26/21 12:10	04/27/21 08:30	- 1
890-577-4	DS02A	Solid	04/26/21 12:15	04/27/21 08:30	- 2
890-577-5	DS03	Solid	04/26/21 12:20	04/27/21 08:30	- 0.5
890-577-6	DS03A	Solid	04/26/21 12:25	04/27/21 08:30	- 1
890-577-7	DS04	Solid	04/26/21 12:30	04/27/21 08:30	- 0.5
890-577-8	DS04A	Solid	04/26/21 12:35	04/27/21 08:30	- 1
890-577-9	DS05	Solid	04/26/21 12:40	04/27/21 08:30	- 1
890-577-10	DS05A	Solid	04/26/21 12:45	04/27/21 08:30	- 2
890-577-11	DS06	Solid	04/26/21 12:50	04/27/21 08:30	- 0.5
890-577-12	DS06A	Solid	04/26/21 12:55	04/27/21 08:30	- 1



Environment Testing Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Lynda Lammback	Bill to: (if different)	→
Company Name:	WPX Energy Permian LLC	Company Name:	→
Address:	5315 Buena Vista Dr	Address:	→
City, State Zip:	Carlsbad, NM 88220	City, State Zip:	→
Phone:	575-725-1647	Email:	Lynda.Lammback@WPXenergy.com

Program: <input type="checkbox"/> UST/PT <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	RDX 21-23	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:		Due Date:			
Project Location:	Tyler, Davy	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:		Wet: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
PO #:		Thermometer ID: 2114-007			
SAMPLE RECEIPT		Correction Factor: -0.12			
Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Temperature Reading: 1.8			
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Corrected Temperature: 1.6			
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Total Containers:					



890-577 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Preservative Codes	Sample Comments
DS01	S	4-26-21	12:00	6.5'	G	1	Chlorides (EPA 300.0)	None: NO	DI Water: H ₂ O
DS01A	S	12:05	1'				BTEX (Method 8021)	Cool: Cool	MeOH: Me
DS02	S	12:16	1'				TPH (Method 8015)	HCL: HC	HNO ₃ : HN
DS02A	S	12:15	2'					H ₂ SO ₄ : H ₂	NaOH: Na
DS03	S	12:20	0.5'					H ₃ PO ₄ : HP	
DS03A	S	12:25	1'					NaHSO ₄ : NABIS	
DS04	S	12:30	0.5'					Na ₂ S ₂ O ₃ : NaSO ₃	
DS04A	S	12:35	1'					Zn Acetate+NaOH: Zn	
DS05	S	12:40	1'					NaOH+Ascorbic Acid: SAPC	
DS05A	S	12:45	2'						

Total 2007 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of 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 negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	4-27-21 08:30			



Environment Testing

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 6 of 6

Project Manager:	Clynda Lumbach	Billing: (if different)	
Company Name:	WPX Energy Permian LLC	Company Name:	
Address:	5315 Buena Vista Dr	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	575-725-1647	Email:	Clynda.Lumbach@WPXenergy.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PPR <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____

[illegible][illegible]

Total 2007 / 6010	2008 / 6020:	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 Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA 5b As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document is a legal acknowledgment of sample collection and analysis. It is required to be signed by the client or a representative of the client company or Eurofins Xerco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xerco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xerco. A minimum charge of \$85.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xerco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	<i>[Signature]</i>	<i>[Signature]</i>	4-27-21 0530			
3						
5						

Login Sample Receipt Checklist

Client: WPX Energy Production LLC

Job Number: 890-577-1

SDG Number:

Login Number: 577

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: WPX Energy Production LLC

Job Number: 890-577-1

SDG Number:

Login Number: 577

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Midland

List Creation: 04/27/21 03:45 PM

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	

Incident ID	nAPP2108360703
District RP	
Facility ID	
Application ID	

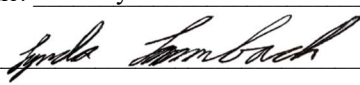
Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Lynda Laumbach Title: Environmental Professional
Signature:  Date: 05/27/2021
email: Lynda.Laumbach@dvn.com Telephone: (575)725-1647

OCD Only

Received by: Robert Hamlet Date: 8/30/2021

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: 8/30/2021
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
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 29796

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 29796
	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 #NAPP2108360703 RDX 21 FEDERAL #023, thank you. This closure is approved.	8/30/2021