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	NRM2016456845
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 32.325495 Longitude -104.0426926
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Longview Federal 12-15H	Site Type: Production Facility
Date Release Discovered: 06/06/2020	API# *(if applicable)*: 30-015-41092

Unit Letter	Section	Township	Range	County
C	12	23S	28E	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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls): 120	Volume Recovered (bbls): 119
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:
At 13:00 hours a hole developed in the heater treater and caused 120bbl of produced water to be released. 119bbls was recovered from the secondary lined containment and 1bbl of PW was released onto the pad surface from a leak on the side on the containment.

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

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2016456845
District RP	
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Over 25bbl of fluid.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email notification was given on June 06, 2020 at 0800 hours to Mike Bratcher, Jim Griswold, Robert Hamlet, and Victoria Venegas	

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Lynda Laumbach Title: Environmental Specialist

Signature: Lynda Laumbach Date: 06/11/2020

email: Lynda.Laumbach@wpxenergy.com Telephone: (575)725-1647

OCD Only

Received by: Ramona Marcus Date: 6/12/2020

State of New Mexico
Oil Conservation Division

Incident ID	NRM2016456845
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>50 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

- ☒ 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.

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Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NRM2016456845
District RP	
Facility ID	
Application ID	

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

Printed Name: Lynda Laumbach Title: Environmental Professional

Signature: Lynda Laumbach Date: 07/08/2021

email: Lynda.Laumbach@dvn.com Telephone: (575)725-1647

OCD Only

Received by: _____ Date: _____

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State of New Mexico
Oil Conservation Division

Incident ID	NRM201645684
District RP	
Facility ID	
Application ID	

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

Printed Name: Lynda Laumbach Title: Environmental Specialist

Signature: Lynda Laumbach Date: 08/06/2020

email: Lynda.Laumbach@wpxenergy.com Telephone: (575)725-1647

OCD Only

Received by: _____ Date: _____

Incident ID	NRM201645684
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: Lynda Laumbach Date: 07/01/2021

email: Lynda.Laumbach@dvn.com Telephone: (575)725-1647

OCD Only

Received by: Chad Hensley Date: 07/20/2021

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: Chad Hensley Date: 07/20/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

July 1, 2021
Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210

Re: Longview Federal 12 #015H Release Closure Request (NRM2016456845)

Mr. Bratcher,

On September 9, 2020 WPX received a denial of Closure from the NMOCD on the basis that the release was not fully delineated in every cardinal direction. The original report is attached as Addendum 01.

Field & Sampling Activities
Final sampling to complete the delineation of the release took place on June 3, 2021 and discrete samples DS04 through DS06 were all advanced to depths of 0.5 and 1 foot below ground surface. Discrete samples were taken to show that contamination was contained to the pad surface and around the heater treater containment. Sample locations are depicted on Figure 01.

Laboratory Analytical Results
The laboratory analytical results for the discrete delineation samples were compliant with the closure criteria for this Site. All samples are below the allowable standards for Chloride, BTEX, and TPH. The sample locations are depicted in Figure 03. All sample results are summarized in Table 01 and complete lab results are provided in Attachment 01.

- Chloride analysis ranged from 114 to 251 mg/kg
- BTEX analysis was below the Laboratory detectable limit
- Benzene analysis was below the Laboratory detectable limit
- TPH analysis was below the Laboratory detectable limit

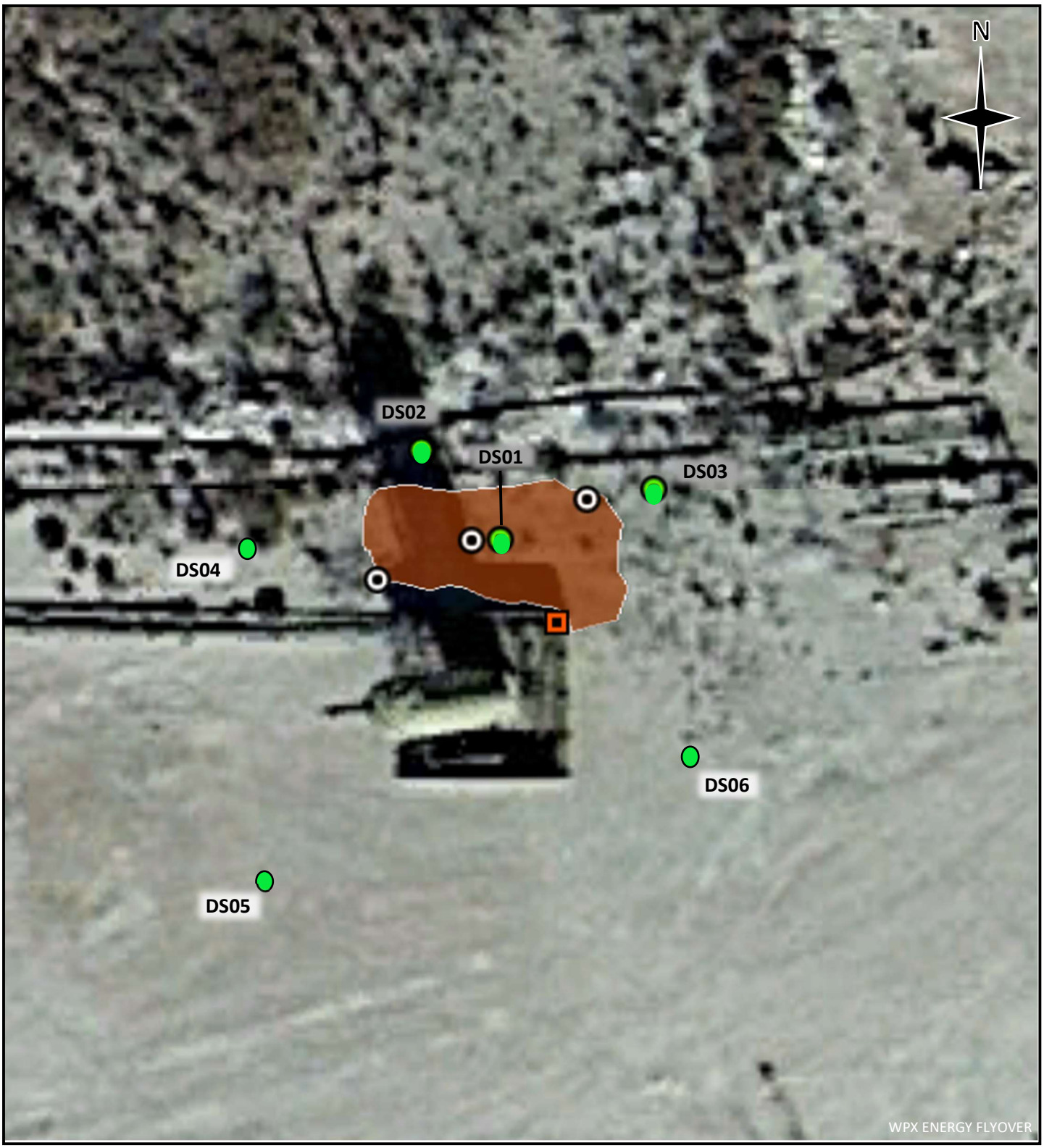
Conclusions
The laboratory analytical results to address the impacted soils from NRM2016456845 demonstrates compliance with the Table 1 Closure Criteria set forth by the NMOCD. WPX requests no further action for this incident. The updated C-141 is included at the front of this report. If any questions 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

Robert Hamlet, NMOCD
Victoria Venegas, NMOCD

Attachments:
Figure 01 Delineation Activities
Table 01 Sample Results
Attachment 01 Laboratory Analytical Results
Addendum 01 Original Closure Report



WPXENERGY

25 ft

Legend

Tear in Liner

Excavation Extent

Figure 01
Longview Federal 12-15H

Permian Basin, Eddy County, NM

NRM2016456845

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS

Longview Federal 12 #015H
NMOCD REFERENCE NUMBER: NRM2016456845

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)
DS04	0.5	6/3/2021	<0.00200	-	<49.9	<49.9	<49.9	-	-	236
DS04A	1	6/3/2021	<0.00200	-	<49.8	<49.8	<49.8	-	-	251
DS05	0.5	6/3/2021	<0.00200	-	<49.8	<49.8	<49.8	-	-	115
DS05A	1	6/3/2021	<0.00198	-	<49.9	<49.9	<49.9	-	-	114
DS06	0.5	6/3/2021	<0.00200	-	<49.9	<49.9	<49.9	-	-	167
DS06A	1	6/3/2021	<0.00200	-	<49.9	<49.9	<49.9	-	-	174
NMOCD Table 1 Closure Criteria			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**10,000**

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

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

Attachment 01

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-784-1
Client Project/Site: Longview 12-15

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

Attn: Lynda Laumbach

JKramer

Authorized for release by:
6/10/2021 6:37:00 PM

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

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: Longview 12-15

Laboratory Job ID: 890-784-1

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Definitions/Glossary

Client: WPX Energy Production LLC Job ID: 890-784-1
Project/Site: Longview 12-15

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: Longview 12-15

Job ID: 890-784-1

Job ID: 890-784-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-784-1

Receipt
The samples were received on 6/7/2021 8:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

Receipt Exceptions
The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: DS04 (890-784-1), DS04A (890-784-2), DS05 (890-784-3), DS05A (890-784-4), DS06 (890-784-5) and DS06A (890-784-6).

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

GC Semi VOA
Method 8015MOD_NM: Manual integration was performed on the following samples: DS04 (890-784-1), DS04A (890-784-2), DS05 (890-784-3), DS05A (890-784-4), DS06 (890-784-5), DS06A (890-784-6), (MB 880-3906/1-A) and (890-783-A-1-E). A manual integration was performed in the >C12-C28 hydrocarbon range and the >C28-C36 hydrocarbon range due to a baseline rise creating a false detections.

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

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

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview 12-15

Job ID: 890-784-1

Client Sample ID: DS04

Lab Sample ID: 890-784-1

Date Collected: 06/03/21 09:30
Matrix: Solid
Date Received: 06/07/21 08:40
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		06/08/21 09:13	06/08/21 19:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 19:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 19:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/08/21 09:13	06/08/21 19:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 19:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/08/21 09:13	06/08/21 19:48	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		06/08/21 09:13	06/08/21 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/08/21 09:13*	*06/08/21 19:48*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/08/21 09:13*	*06/08/21 19:48*	*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		06/08/21 16:28	06/09/21 00:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/08/21 16:28	06/09/21 00:33	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/08/21 16:28	06/09/21 00:33	1
Total TPH	<49.9	U	49.9		mg/Kg		06/08/21 16:28	06/09/21 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*06/08/21 16:28*	*06/09/21 00:33*	*1*
o-Terphenyl	*107*		*70 - 130*	*06/08/21 16:28*	*06/09/21 00:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**236**		4.95		mg/Kg			06/09/21 17:44	1

Client Sample ID: DS04A

Lab Sample ID: 890-784-2

Date Collected: 06/03/21 09:35
Matrix: Solid
Date Received: 06/07/21 08:40
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		06/08/21 09:13	06/08/21 20:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 20:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 20:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/08/21 09:13	06/08/21 20:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 20:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/08/21 09:13	06/08/21 20:09	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		06/08/21 09:13	06/08/21 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*06/08/21 09:13*	*06/08/21 20:09*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/08/21 09:13*	*06/08/21 20:09*	*1*

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview 12-15

Job ID: 890-784-1

Client Sample ID: DS04A

Lab Sample ID: 890-784-2
Matrix: Solid
Date Collected: 06/03/21 09:35
Date Received: 06/07/21 08:40
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	<49.8	U	49.8		mg/Kg		06/08/21 16:28	06/09/21 00:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/08/21 16:28	06/09/21 00:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/08/21 16:28	06/09/21 00:53	1
Total TPH	<49.8	U	49.8		mg/Kg		06/08/21 16:28	06/09/21 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*06/08/21 16:28*	*06/09/21 00:53*	*1*
o-Terphenyl	*116*		*70 - 130*	*06/08/21 16:28*	*06/09/21 00:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**251**		4.95		mg/Kg			06/09/21 17:59	1

Client Sample ID: DS05

Lab Sample ID: 890-784-3
Matrix: Solid
Date Collected: 06/03/21 09:40
Date Received: 06/07/21 08:40
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		06/08/21 09:13	06/08/21 20:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 20:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 20:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/08/21 09:13	06/08/21 20:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 20:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/08/21 09:13	06/08/21 20:29	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/08/21 09:13	06/08/21 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/08/21 09:13*	*06/08/21 20:29*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/08/21 09:13*	*06/08/21 20:29*	*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		06/08/21 16:28	06/09/21 01:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/08/21 16:28	06/09/21 01:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/08/21 16:28	06/09/21 01:14	1
Total TPH	<49.8	U	49.8		mg/Kg		06/08/21 16:28	06/09/21 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*06/08/21 16:28*	*06/09/21 01:14*	*1*
o-Terphenyl	*110*		*70 - 130*	*06/08/21 16:28*	*06/09/21 01:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**115**		5.04		mg/Kg			06/09/21 18:04	1

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview 12-15

Job ID: 890-784-1

Client Sample ID: DS05A

Lab Sample ID: 890-784-4
Matrix: Solid
Date Collected: 06/03/21 09:45
Date Received: 06/07/21 08:40
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		06/08/21 09:13	06/08/21 20:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/08/21 09:13	06/08/21 20:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/08/21 09:13	06/08/21 20:50	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/08/21 09:13	06/08/21 20:50	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/08/21 09:13	06/08/21 20:50	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/08/21 09:13	06/08/21 20:50	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		06/08/21 09:13	06/08/21 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*06/08/21 09:13*	*06/08/21 20:50*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/08/21 09:13*	*06/08/21 20:50*	*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		06/08/21 16:28	06/09/21 01:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/08/21 16:28	06/09/21 01:34	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/08/21 16:28	06/09/21 01:34	1
Total TPH	<49.9	U	49.9		mg/Kg		06/08/21 16:28	06/09/21 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*06/08/21 16:28*	*06/09/21 01:34*	*1*
o-Terphenyl	*105*		*70 - 130*	*06/08/21 16:28*	*06/09/21 01:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**114**		5.05		mg/Kg			06/09/21 18:09	1

Client Sample ID: DS06

Lab Sample ID: 890-784-5
Matrix: Solid
Date Collected: 06/03/21 09:50
Date Received: 06/07/21 08:40
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		06/08/21 09:13	06/08/21 21:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 21:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 21:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/08/21 09:13	06/08/21 21:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 21:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/08/21 09:13	06/08/21 21:10	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		06/08/21 09:13	06/08/21 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*06/08/21 09:13*	*06/08/21 21:10*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/08/21 09:13*	*06/08/21 21:10*	*1*

Client Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview 12-15

Job ID: 890-784-1

Client Sample ID: DS06

Lab Sample ID: 890-784-5
Matrix: Solid
Date Collected: 06/03/21 09:50
Date Received: 06/07/21 08:40
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	<49.9	U	49.9		mg/Kg		06/08/21 16:28	06/09/21 01:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/08/21 16:28	06/09/21 01:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/08/21 16:28	06/09/21 01:54	1
Total TPH	<49.9	U	49.9		mg/Kg		06/08/21 16:28	06/09/21 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*06/08/21 16:28*	*06/09/21 01:54*	*1*
o-Terphenyl	*110*		*70 - 130*	*06/08/21 16:28*	*06/09/21 01:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**167**		4.98		mg/Kg			06/09/21 18:13	1

Client Sample ID: DS06A

Lab Sample ID: 890-784-6
Matrix: Solid
Date Collected: 06/03/21 09:55
Date Received: 06/07/21 08:40
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		06/08/21 09:13	06/08/21 21:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 21:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 21:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/08/21 09:13	06/08/21 21:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/08/21 09:13	06/08/21 21:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/08/21 09:13	06/08/21 21:30	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/08/21 09:13	06/08/21 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*06/08/21 09:13*	*06/08/21 21:30*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/08/21 09:13*	*06/08/21 21:30*	*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		06/08/21 16:28	06/09/21 02:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/08/21 16:28	06/09/21 02:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/08/21 16:28	06/09/21 02:14	1
Total TPH	<49.9	U	49.9		mg/Kg		06/08/21 16:28	06/09/21 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*06/08/21 16:28*	*06/09/21 02:14*	*1*
o-Terphenyl	*107*		*70 - 130*	*06/08/21 16:28*	*06/09/21 02:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**174**		4.99		mg/Kg			06/09/21 18:18	1

Surrogate Summary

Client: WPX Energy Production LLC
Project/Site: Longview 12-15

Job ID: 890-784-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-784-1	DS04	117	101
890-784-2	DS04A	126	96
890-784-3	DS05	119	102
890-784-4	DS05A	118	102
890-784-5	DS06	121	102
890-784-6	DS06A	121	99
LCS 880-3869/1-A	Lab Control Sample	107	94
LCSD 880-3869/2-A	Lab Control Sample Dup	107	95
MB 880-3869/5-A	Method Blank	112	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-784-1	DS04	104	107
890-784-2	DS04A	113	116
890-784-3	DS05	105	110
890-784-4	DS05A	104	105
890-784-5	DS06	107	110
890-784-6	DS06A	103	107
LCS 880-3906/2-A	Lab Control Sample	98	98
LCSD 880-3906/3-A	Lab Control Sample Dup	99	99
MB 880-3906/1-A	Method Blank	94	0.003 S1-

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview 12-15

Job ID: 890-784-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3869/5-A
Matrix: Solid
Analysis Batch: 3870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3869

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

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

Lab Sample ID: LCS 880-3869/1-A
Matrix: Solid
Analysis Batch: 3870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3869

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

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

Lab Sample ID: LCSD 880-3869/2-A
Matrix: Solid
Analysis Batch: 3870

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3869

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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

QC Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview 12-15

Job ID: 890-784-1

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

Lab Sample ID: MB 880-3906/1-A
Matrix: Solid
Analysis Batch: 3875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3906

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		06/08/21 16:28	06/08/21 21:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/08/21 16:28	06/08/21 21:32	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/08/21 16:28	06/08/21 21:32	1
Total TPH	<50.0	U	50.0		mg/Kg		06/08/21 16:28	06/08/21 21:32	1

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

Lab Sample ID: LCS 880-3906/2-A
Matrix: Solid
Analysis Batch: 3875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3906

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	892.1		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1035		mg/Kg		103	70 - 130		

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

Lab Sample ID: LCSD 880-3906/3-A
Matrix: Solid
Analysis Batch: 3875

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3906

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

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3883/1-A
Matrix: Solid
Analysis Batch: 3932

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			06/09/21 17:00	1

QC Sample Results

Client: WPX Energy Production LLC
Project/Site: Longview 12-15

Job ID: 890-784-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-3883/2-A
Matrix: Solid
Analysis Batch: 3932

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-3883/3-A
Matrix: Solid
Analysis Batch: 3932

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	248.1		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: WPX Energy Production LLC
Project/Site: Longview 12-15

Job ID: 890-784-1

GC VOA

Prep Batch: 3869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-784-1	DS04	Total/NA	Solid	5035	
890-784-2	DS04A	Total/NA	Solid	5035	
890-784-3	DS05	Total/NA	Solid	5035	
890-784-4	DS05A	Total/NA	Solid	5035	
890-784-5	DS06	Total/NA	Solid	5035	
890-784-6	DS06A	Total/NA	Solid	5035	
MB 880-3869/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3869/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3869/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-784-1	DS04	Total/NA	Solid	8021B	3869
890-784-2	DS04A	Total/NA	Solid	8021B	3869
890-784-3	DS05	Total/NA	Solid	8021B	3869
890-784-4	DS05A	Total/NA	Solid	8021B	3869
890-784-5	DS06	Total/NA	Solid	8021B	3869
890-784-6	DS06A	Total/NA	Solid	8021B	3869
MB 880-3869/5-A	Method Blank	Total/NA	Solid	8021B	3869
LCS 880-3869/1-A	Lab Control Sample	Total/NA	Solid	8021B	3869
LCSD 880-3869/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3869

GC Semi VOA

Analysis Batch: 3875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-784-1	DS04	Total/NA	Solid	8015B NM	3906
890-784-2	DS04A	Total/NA	Solid	8015B NM	3906
890-784-3	DS05	Total/NA	Solid	8015B NM	3906
890-784-4	DS05A	Total/NA	Solid	8015B NM	3906
890-784-5	DS06	Total/NA	Solid	8015B NM	3906
890-784-6	DS06A	Total/NA	Solid	8015B NM	3906
MB 880-3906/1-A	Method Blank	Total/NA	Solid	8015B NM	3906
LCS 880-3906/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3906
LCSD 880-3906/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3906

Prep Batch: 3906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-784-1	DS04	Total/NA	Solid	8015NM Prep	
890-784-2	DS04A	Total/NA	Solid	8015NM Prep	
890-784-3	DS05	Total/NA	Solid	8015NM Prep	
890-784-4	DS05A	Total/NA	Solid	8015NM Prep	
890-784-5	DS06	Total/NA	Solid	8015NM Prep	
890-784-6	DS06A	Total/NA	Solid	8015NM Prep	
MB 880-3906/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3906/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3906/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WPX Energy Production LLC
Project/Site: Longview 12-15

Job ID: 890-784-1

HPLC/IC

Leach Batch: 3883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-784-1	DS04	Soluble	Solid	DI Leach	
890-784-2	DS04A	Soluble	Solid	DI Leach	
890-784-3	DS05	Soluble	Solid	DI Leach	
890-784-4	DS05A	Soluble	Solid	DI Leach	
890-784-5	DS06	Soluble	Solid	DI Leach	
890-784-6	DS06A	Soluble	Solid	DI Leach	
MB 880-3883/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3883/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3883/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 3932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-784-1	DS04	Soluble	Solid	300.0	3883
890-784-2	DS04A	Soluble	Solid	300.0	3883
890-784-3	DS05	Soluble	Solid	300.0	3883
890-784-4	DS05A	Soluble	Solid	300.0	3883
890-784-5	DS06	Soluble	Solid	300.0	3883
890-784-6	DS06A	Soluble	Solid	300.0	3883
MB 880-3883/1-A	Method Blank	Soluble	Solid	300.0	3883
LCS 880-3883/2-A	Lab Control Sample	Soluble	Solid	300.0	3883
LCSD 880-3883/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3883

Lab Chronicle

Client: WPX Energy Production LLC
Project/Site: Longview 12-15

Job ID: 890-784-1

Client Sample ID: DS04

Lab Sample ID: 890-784-1
Matrix: Solid
Date Collected: 06/03/21 09:30
Date Received: 06/07/21 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	3869	06/08/21 09:13	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3870	06/08/21 19:48	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3906	06/08/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3875	06/09/21 00:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	3883	06/08/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			3932	06/09/21 17:44	CH	XEN MID

Client Sample ID: DS04A

Lab Sample ID: 890-784-2
Matrix: Solid
Date Collected: 06/03/21 09:35
Date Received: 06/07/21 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3869	06/08/21 09:13	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3870	06/08/21 20:09	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	3906	06/08/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3875	06/09/21 00:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	3883	06/08/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			3932	06/09/21 17:59	CH	XEN MID

Client Sample ID: DS05

Lab Sample ID: 890-784-3
Matrix: Solid
Date Collected: 06/03/21 09:40
Date Received: 06/07/21 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3869	06/08/21 09:13	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3870	06/08/21 20:29	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	3906	06/08/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3875	06/09/21 01:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3883	06/08/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			3932	06/09/21 18:04	CH	XEN MID

Client Sample ID: DS05A

Lab Sample ID: 890-784-4
Matrix: Solid
Date Collected: 06/03/21 09:45
Date Received: 06/07/21 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	3869	06/08/21 09:13	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3870	06/08/21 20:50	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3906	06/08/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3875	06/09/21 01:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	3883	06/08/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			3932	06/09/21 18:09	CH	XEN MID

Lab Chronicle

Client: WPX Energy Production LLC
Project/Site: Longview 12-15

Job ID: 890-784-1

Client Sample ID: DS06

Date Collected: 06/03/21 09:50
Date Received: 06/07/21 08:40

Lab Sample ID: 890-784-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	3869	06/08/21 09:13	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3870	06/08/21 21:10	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3906	06/08/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3875	06/09/21 01:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	3883	06/08/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			3932	06/09/21 18:13	CH	XEN MID

Client Sample ID: DS06A

Date Collected: 06/03/21 09:55
Date Received: 06/07/21 08:40

Lab Sample ID: 890-784-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3869	06/08/21 09:13	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3870	06/08/21 21:30	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3906	06/08/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3875	06/09/21 02:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3883	06/08/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			3932	06/09/21 18:18	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WPX Energy Production LLC
Project/Site: Longview 12-15

Job ID: 890-784-1

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: Longview 12-15

Job ID: 890-784-1

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: WPX Energy Production LLC
Project/Site: Longview 12-15

Job ID: 890-784-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-784-1	DS04	Solid	06/03/21 09:30	06/07/21 08:40	- 0.5
890-784-2	DS04A	Solid	06/03/21 09:35	06/07/21 08:40	- 1
890-784-3	DS05	Solid	06/03/21 09:40	06/07/21 08:40	- 0.5
890-784-4	DS05A	Solid	06/03/21 09:45	06/07/21 08:40	- 1
890-784-5	DS06	Solid	06/03/21 09:50	06/07/21 08:40	- 0.5
890-784-6	DS06A	Solid	06/03/21 09:55	06/07/21 08:40	- 1

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Lynda Laumbach	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.Laumbach@wpxenergy.com

Work Order Comments

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

Project Name:	Longview 12-15	Turn Around	☒ Routine ☐ Rush
Project Number:		Due Date:	
Project Location:		TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Tyler Dominguez		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TNM-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	2.4
Total Containers:		Corrected Temperature:	2.2

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides (EPA 300.00)	BTEX (Method 8021)	TPH (Method 8015)	Sample Comments
DS04	S	6-3-21	9:30	0.5'	G	1		X	X	X	
DS04A			9:35	1'							
DS05			9:40	0.5'							
DS05A			9:45	1'							
DS06			9:50	0.5'							
DS06A			9:55	1'							

890-784 Chain of Custody

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		6-7-21 840	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-253 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-784-1
Address: 1211 W Florida Ave	Due Date Requested: 6/11/2021			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Longview 12-15	Project #: 88000204			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL	M Hexane		
B NaOH	N None		
C Zn Acetate	O AsNaO2		
D Nitric Acid	P Na2O4S		
E NaHSO4	Q Na2SO3		
F MeOH	R Na2S2O3		
G Amchlor	S H2SO4		
H Ascorbic Acid	T TSP Dodecahydrate		
I Ice	U Acetone		
J DI Water	V MCAA		
K EDTA	W pH 4-5		
L EDA	Z other (specify)		

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	8016MOD_NM/8015NM_S_Prep Full TPH	TX_1005/TX_1005_S_Prep TX 1005	Total Number of containers	Special Instructions/Note.
			Preservation Code:									
DS04 (890-784-1)	6/3/21	09 30 Mountain		Solid			X	X	X		1	
DS04A (890-784-2)	6/3/21	09 35 Mountain		Solid			X	X	X	X	1	
DS05 (890-784-3)	6/3/21	09 40 Mountain		Solid			X	X	X	X	1	
DS05A (890-784-4)	6/3/21	09 45 Mountain		Solid			X	X	X	X	1	
DS06 (890-784-5)	6/3/21	09 50 Mountain		Solid			X	X	X		1	
DS06A (890-784-6)	6/3/21	09 55 Mountain		Solid			X	X	X		1	

Note. Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III, IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by: Cruz Cuffs	Date/Time: 6-7-21	Company	Received by:	Date/Time: 6-8-21 1100 AM	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:

Ver 11/01/2020

Login Sample Receipt Checklist

Client: WPX Energy Production LLC

Job Number: 890-784-1
SDG Number:

Login Number: 784
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, 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: 890-784-1
SDG Number:

Login Number: 784
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 06/08/21 01:16 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	

Addendum 01

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	NRM2016456845
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>50 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

- ☒ 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NRM201645684
District RP	
Facility ID	
Application ID	

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

Printed Name: Lynda Laumbach Title: Environmental Specialist

Signature: Lynda Laumbach Date: 08/24/2020

email: Lynda.Laumbach@wpxenergy.com Telephone: (575)725-1647

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NRM201645684
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 Specialist

Signature: Lynda Laumbach Date: 08/06/2020

email: Lynda.Laumbach@wpxenergy.com Telephone: (575)725-1647

OCD Only

Received by: Victoria Venegas Date: 08/24/2020

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: CLOSURE DENIED Date: 09/10/2020

Printed Name: Victoria Venegas Title: Engineering Tech. III

August 24, 2020
Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210

Re: Longview Federal 12 #015H Release Closure Request (NRM2016456845)

Mr. Bratcher,

This report summarizes the excavation, sampling, and secondary containment inspection activities at the Longview Federal 12 #015H well pad (Site). The site map is provided as Figure 01. On June 6, 2020, a hole developed in the bottom of the heater treater unit causing 119 barrels (bbls) of produced water to be released into the lined secondary containment. A tear on the side of the containment caused an estimated 1bbl of produced water to impact the pad surface. 119 bbls from the containment was recovered with a vacuum truck.

Well Location: Longview Federal 12 #015H
*API #:*30-015-41092
NMOCD Reference #: NRM2016456845
Site Location Description: Unit Letter C, Section 12, Township 23S, Range 28E
Release Latitude/Longitude: N32.325495, W104.0426926
Land Jurisdiction: Federal
Agency Notification: New Mexico Oil Conservation Division (NMOCD), Artesia District Office
Agency Notification Date(s): June 06. 2020
Source of Release: Equipment failure
Release Contents: Produced water
Volume Released: 120 barrels
Volume Recovered: 119 barrels
Estimated Depth to Groundwater: >50 feet

Closure Criteria Determination
The Closure criteria of this site was determined based on the New Mexico Administrative Code (NMAC) Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12). Depth to groundwater at the site is estimated to be greater than 50 feet below ground surface (bgs) based on permitted well C-04418-POD1, completed on March 31, 2020. The well was completed to a depth of 55 feet, and groundwater was not encountered or observed prior to the plugging of the well on April 3, 2020. Plug Record of the Well is provided as Attachment 02. Based on the criteria outlined above, the closure criteria from the NMOCD Table 1 are as follows:

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

Field Activities

On June 9, 2020, WPX personnel were onsite to map the release area. The visually impacted area is provided in Figure 02. A crew power washed the containment to prepare for liner repair and liner inspection No other liner compromises were found while washing the liner. A patch was completed on the liner on June 15, 2020. Notification of liner inspection and sample collection was scheduled with the NMOCD on July 06, 2020. The liner inspection and excavation activities were completed July 07, 2020 and final samples were collected. Pictures of the secondary containment inspection and excavation activities are provided in Attachment 03. Sidewall samples SW01 & SW02, Floor sample FS01, and discrete delineation samples DS01 through DS03 were collected to delineate and provide sufficient evidence of compliance. A total of 16 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 270 square feet with an average depth of one foot bgs.

Sampling Activities

Floor and sidewall samples were collected via 5-point composite sampling over areas no greater than 200 square feet across the excavation area. Discrete samples were taken to show that contamination was contained to the pad surface. All samples were taken with decontaminated equipment, jarred in precleaned glass soil jars, labelled with sample name, date, Site name, and depth, 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.

Laboratory Analytical Results

The laboratory analytical results for the excavation of impacted soils confirmed that all floor, sidewall, and discrete samples were compliant with the closure criteria for this Site. All samples are below the allowable standards for Chloride, BTEX, and TPH. The sample locations are depicted in Figure 03. All sample results are summarized in Table 1 and complete lab results are provided in Attachment 04.

- Chloride samples ranged from 72.4 to 6,150 mg/kg
- BTEX analysis was below the Laboratory detectable limit
- Benzene analysis was below the Laboratory detectable limit
- TPH ranged from below the Laboratory detectable limit to 106 mg/kg

Conclusions

The laboratory analytical results to address the impacted soils from NRM2016456845 demonstrates compliance with the Table 1 Closure Criteria set forth by the NMOCD. The secondary containment was determined to be intact and functioning properly to contain releases. Actions to mitigate initial impacts of this site have proven a successful remediation. WPX requests no further action for this incident. The updated C-141 is included at the front of this report. If any questions or further information is warranted, please do not hesitate to contact me by cell phone at (575) 725-1647 or by email at Lynda.Laumbach@wpxenergy.com.

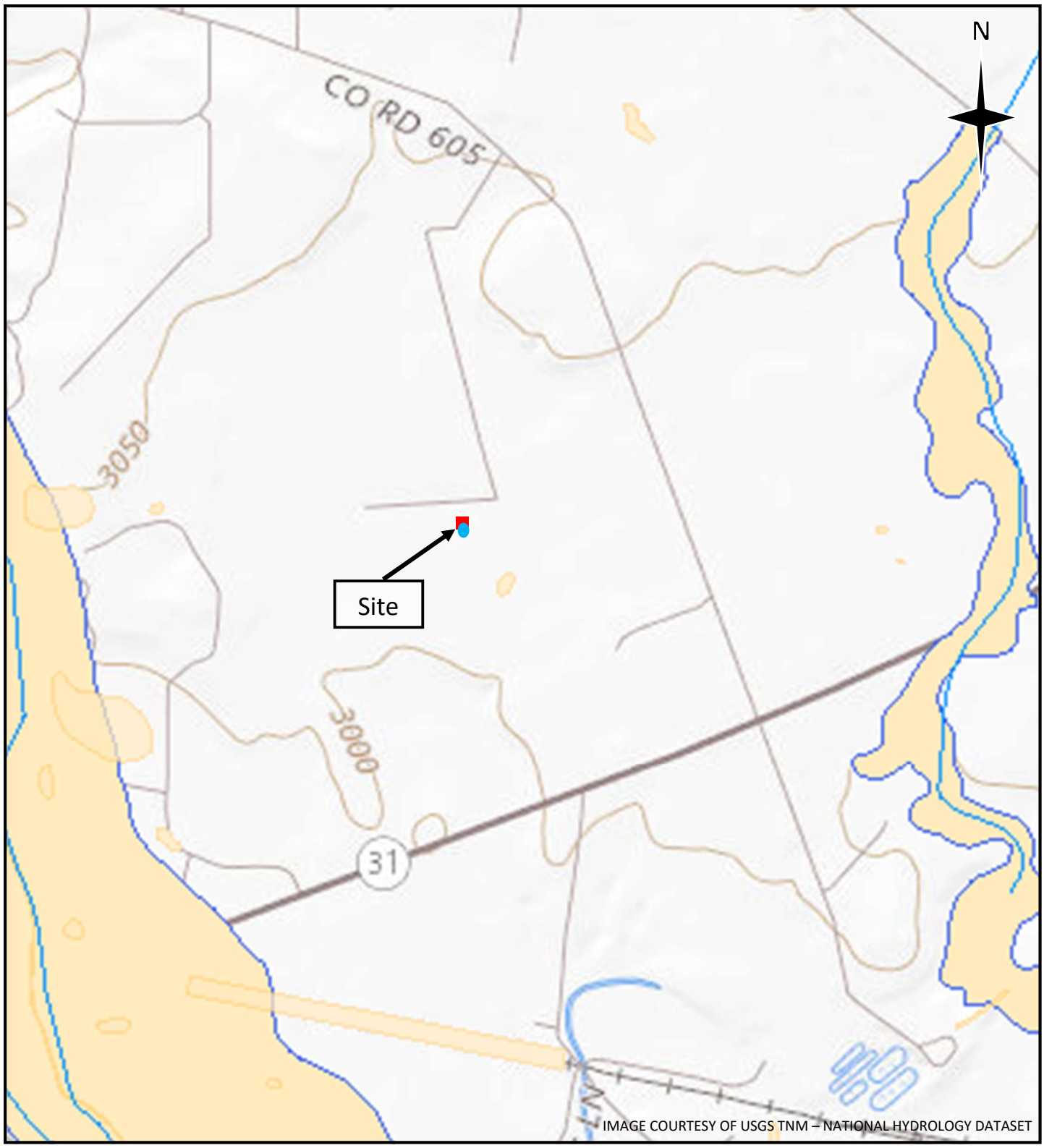
Best regards,

Lynda Laumbach
Environmental Specialist

CC: Jim Raley, WPX
Robert Hamlet, NMOCD
Victoria Venegas, NMOCD

Attachments:
Figure 01 Site Map
Figure 02 Excavation Activities
Table 01 Sample Results
Attachment 01 Water Well C 04418 POD1 Plug Record
Attachment 02 Photograph Log
Attachment 03 Laboratory Analytical Results

Figures



WPXENERGY

0 0.3 0.6mi

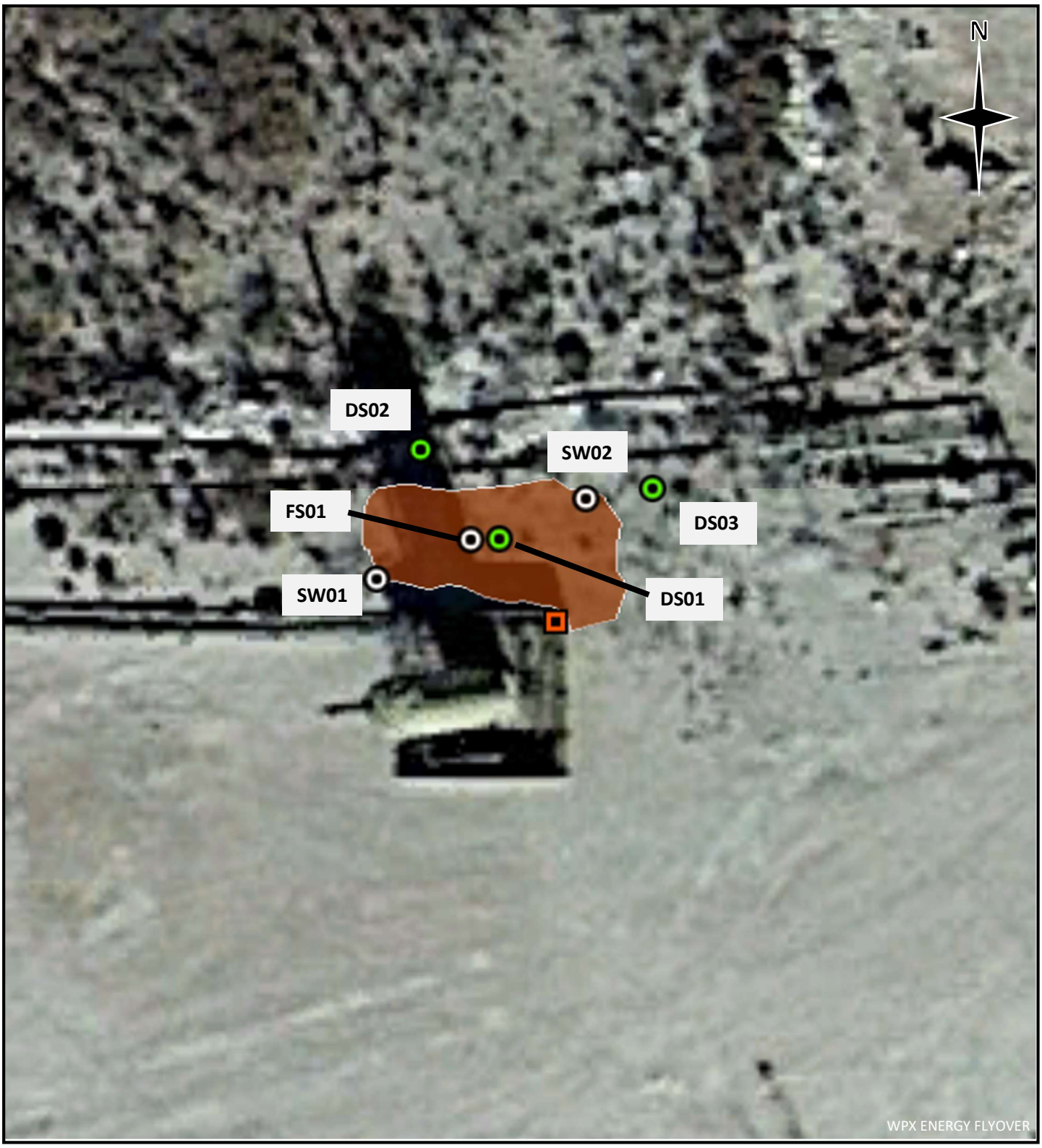
Legend

- Site
- OSE Water Body
- 100 year flood plane
- C-04418-POD1

Figure 01
Longview Federal 12-15H

Permian Basin, Eddy County, NM

NRM2016456845



WPXENERGY

25 ft

Legend

Tear in Liner

Release Extent

Figure 02
Longview Federal 12-15H

Permian Basin, Eddy County, NM

NRM2016456845

Table(s)

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS

Longview Federal 12 #015H
NMOCD REFERENCE NUMBER: NRM2016456845

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)
SW01	0-1	7/9/2020	<0.002	<0.002	<50.1	<50.1	<50.1	-	-	5370.0
SW02	0-1.5	7/9/2020	<0.0019	<0.0019	<50.1	<50.1	<50.1	-	-	4260.0
FS01	0-1.5	7/9/2020	<0.002	<0.002	<50.0	<50.0	<50.0	-	-	6150.0
DS01	2	7/9/2020	<0.0019	<0.0019	<50.1	54.8	51.1	54.8	106	2840.0
DS02	0(surface)	7/9/2020	<0.002	<0.002	<50.3	<50.3	<50.3	-	-	72.4
DS03	0(surface)	7/9/2020	<0.002	<0.002	<20.0	<50.2	<50.2	-	-	215.0
NMOCD Table 1 Closure Criteria			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**10000.0**

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

Attachment 01

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C 04418

Well owner: WPX Energy Phone No.:

Mailing address: 5315 Buena Vista Drive

City: Carlsbad State: NM Zip code: 88220

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: HRL Compliance Solutions

2) New Mexico Well Driller License No.: 1789 Expiration Date: 12/20/2020

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Kalvin (Kelly) Padilla

4) Date well plugging began: 4/3/2020 Date well plugging concluded: 4/3/2020

5) GPS Well Location: Latitude: 32 deg, 19 min, 29.6 sec
Longitude: -104 deg, 02 min, 33.7 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl), by the following manner: Measuring Tape

7) Static water level measured at initiation of plugging: > 55 ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: Not Applicabl

9) Were all plugging activities consistent with an approved plugging plan? Not Applicable If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Version: September 8, 2009
Page 1 of 2

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Clean Native Soil to 10' Bent chips to the surface	N/A	N/A	N/A	

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Mark Mumby, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

4/23/2020
Date

Version: September 8, 2009
Page 2 of 2

Attachment 02

Picture 1- West face, northeast edge of Site	
8-Jun-20	9-Jul-20
	
Picture 2- South face, north edge of Site	
8-Jun-20	9-Jul-20
	

Picture 3- East face, facing entrance to location	
8-Jun-20	9-Jul-20
	
Picture 4- East face liner inspection	
8-Jun-20	9-Jul-20
	

Picture 5- Southwest edge of liner	
8-Jun-20	9-Jul-20
	
Picture 6- Northeast edge liner, facing north- closeup of failed section	
8-Jun-20	9-Jul-20
	

Picture 7- North face, east edge of liner	Picture 8- North face, south edge of liner
9-Jul-20 	9-Jul-20 

Attachment 03

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Certificate of Analysis Summary 666859

WPX Energy Permian Basin, LLC, Carlsbad, NM

Project Name: Longview 12-15

Project Id: 06062020
Contact: Lynda Laumbach
Project Location:

Date Received in Lab: Fri 07.10.2020 11:15
Report Date: 07.29.2020 16:05
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	666859-001		666859-002		666859-003					
	Field Id:	SW01		SW02		FS01					
	Depth:	0-1 ft		0-1.5 ft		0-1.5 ft					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	07.09.2020 11:20		07.09.2020 11:30		07.09.2020 11:10					
BTEX by EPA 8021B	***Extracted:***	07.10.2020 13:00		07.10.2020 13:00		07.10.2020 13:00					
	Analyzed:	07.10.2020 16:04		07.10.2020 16:26		07.10.2020 16:47					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202				
Toluene		<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202				
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202				
m,p-Xylenes		<0.00400	0.00400	<0.00398	0.00398	<0.00404	0.00404				
o-Xylene		<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202				
Total Xylenes		<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202				
Total BTEX		<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202				
Chloride by EPA 300	***Extracted:***	07.10.2020 14:00		07.10.2020 14:00		07.10.2020 14:00					
	Analyzed:	07.10.2020 14:59		07.10.2020 15:05		07.10.2020 15:11					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		5370	50.4	4260	49.7	6150	49.9				
TPH By SW8015 Mod	***Extracted:***	07.10.2020 13:20		07.10.2020 13:20		07.10.2020 13:20					
	Analyzed:	07.10.2020 13:25		07.10.2020 14:26		07.10.2020 14:47					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1	<50.1	50.1	<50.0	50.0				
Diesel Range Organics (DRO)		<50.1	50.1	<50.1	50.1	<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1	<50.1	50.1	<50.0	50.0				
Total TPH		<50.1	50.1	<50.1	50.1	<50.0	50.0				

BRL - Below Reporting Limit

Jessica Kramer

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Analytical Report 666859

for

WPX Energy Permian Basin, LLC

Project Manager: Lynda Laumbach

Longview 12-15

06062020

07.29.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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07.29.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **666859**
Longview 12-15
Project Address:

Lynda Laumbach:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 666859. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 666859 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 666859

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-15

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW01	S	07.09.2020 11:20	0 - 1 ft	666859-001
SW02	S	07.09.2020 11:30	0 - 1.5 ft	666859-002
FS01	S	07.09.2020 11:10	0 - 1.5 ft	666859-003

CASE NARRATIVE

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Client Name: WPX Energy Permian Basin, LLC

Project Name: Longview 12-15

Project ID: *06062020*
Work Order Number(s): *666859*

Report Date: *07.29.2020*
Date Received: *07.10.2020*

Sample receipt non conformances and comments:

V1.001 Revision (client email) Corrected typo on sample 002

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 666859

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-15

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	07.10.2020 11:15
Lab Sample Id:	666859-001	Date Collected:	07.09.2020 11:20	Sample Depth:	0 - 1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	07.10.2020 14:00	Basis:	Wet Weight
Seq Number:	3131392				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5370**	50.4	mg/kg	07.10.2020 14:59		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	07.10.2020 13:20	Basis:	Wet Weight
Seq Number:	3131397				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	07.10.2020 13:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	07.10.2020 13:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	07.10.2020 13:25	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	07.10.2020 13:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	74	%	70-135	07.10.2020 13:25	
o-Terphenyl	84-15-1	71	%	70-135	07.10.2020 13:25	

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Certificate of Analytical Results 666859

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-15

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	07.10.2020 11:15
Lab Sample Id:	666859-001	Date Collected:	07.09.2020 11:20	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	07.10.2020 13:00	Basis:	Wet Weight
Seq Number:	3131399				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.10.2020 16:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.10.2020 16:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.10.2020 16:04	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.10.2020 16:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.10.2020 16:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.10.2020 16:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.10.2020 16:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	07.10.2020 16:04	
1,4-Difluorobenzene	540-36-3	98	%	70-130	07.10.2020 16:04	

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Certificate of Analytical Results 666859

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-15

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	07.10.2020 11:15
Lab Sample Id:	666859-002	Date Collected:	07.09.2020 11:30	Sample Depth:	0 - 1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	07.10.2020 14:00	Basis:	Wet Weight
Seq Number:	3131392				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4260**	49.7	mg/kg	07.10.2020 15:05		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	07.10.2020 13:20	Basis:	Wet Weight
Seq Number:	3131397				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	07.10.2020 14:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	07.10.2020 14:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	07.10.2020 14:26	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	07.10.2020 14:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-135	07.10.2020 14:26	
o-Terphenyl	84-15-1	74	%	70-135	07.10.2020 14:26	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 666859

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-15

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	07.10.2020 11:15
Lab Sample Id:	666859-002	Date Collected:	07.09.2020 11:30	Sample Depth:	0 - 1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	07.10.2020 13:00	Basis:	Wet Weight
Seq Number:	3131399				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.10.2020 16:26	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.10.2020 16:26	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.10.2020 16:26	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.10.2020 16:26	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.10.2020 16:26	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.10.2020 16:26	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.10.2020 16:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	07.10.2020 16:26	
4-Bromofluorobenzene	460-00-4	106	%	70-130	07.10.2020 16:26	

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Certificate of Analytical Results 666859

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-15

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	07.10.2020 11:15
Lab Sample Id:	666859-003	Date Collected:	07.09.2020 11:10	Sample Depth:	0 - 1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	07.10.2020 14:00	Basis:	Wet Weight
Seq Number:	3131392				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6150**	49.9	mg/kg	07.10.2020 15:11		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	07.10.2020 13:20	Basis:	Wet Weight
Seq Number:	3131397				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.10.2020 14:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.10.2020 14:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.10.2020 14:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.10.2020 14:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	07.10.2020 14:47	
o-Terphenyl	84-15-1	89	%	70-135	07.10.2020 14:47	

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Certificate of Analytical Results 666859

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-15

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	07.10.2020 11:15
Lab Sample Id:	666859-003	Date Collected:	07.09.2020 11:10	Sample Depth:	0 - 1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	07.10.2020 13:00	Basis:	Wet Weight
Seq Number:	3131399				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.10.2020 16:47	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.10.2020 16:47	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.10.2020 16:47	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	07.10.2020 16:47	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.10.2020 16:47	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	07.10.2020 16:47	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.10.2020 16:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.10.2020 16:47	
4-Bromofluorobenzene	460-00-4	105	%	70-130	07.10.2020 16:47	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 666859

WPX Energy Permian Basin, LLC

Longview 12-15

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3131392 — Matrix: Solid — Date Prep: 07.10.2020
MB Sample Id: 7707139-1-BLK — LCS Sample Id: 7707139-1-BKS — LCSD Sample Id: 7707139-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	243	97	255	102	90-110	5	20	mg/kg	07.10.2020 13:52	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3131392 — Matrix: Soil — Date Prep: 07.10.2020
Parent Sample Id: 666761-001 — MS Sample Id: 666761-001 S — MSD Sample Id: 666761-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	22.7	200	226	102	227	102	90-110	0	20	mg/kg	07.10.2020 14:09	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3131392 — Matrix: Soil — Date Prep: 07.10.2020
Parent Sample Id: 666861-002 — MS Sample Id: 666861-002 S — MSD Sample Id: 666861-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	13.7	200	217	102	217	102	90-110	0	20	mg/kg	07.10.2020 15:27	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131397 — Matrix: Solid — Date Prep: 07.10.2020
MB Sample Id: 7707153-1-BLK — LCS Sample Id: 7707153-1-BKS — LCSD Sample Id: 7707153-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1240	124	1230	123	70-135	1	35	mg/kg	07.10.2020 10:43	
Diesel Range Organics (DRO)	<50.0	1000	1200	120	1210	121	70-135	1	35	mg/kg	07.10.2020 10:43	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	86		111		114		70-135	%	07.10.2020 10:43
o-Terphenyl	83		97		99		70-135	%	07.10.2020 10:43

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131397 — Matrix: Solid — Date Prep: 07.10.2020
MB Sample Id: 7707153-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	07.10.2020 10:23	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

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QC Summary 666859

WPX Energy Permian Basin, LLC

Longview 12-15

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131397 — Matrix: Soil — Date Prep: 07.10.2020
Parent Sample Id: 666859-001 — MS Sample Id: 666859-001 S — MSD Sample Id: 666859-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	1140	114	1150	115	70-135	1	35	mg/kg	07.10.2020 13:45	
Diesel Range Organics (DRO)	<50.1	1000	1140	114	1120	112	70-135	2	35	mg/kg	07.10.2020 13:45	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	87		98		70-135	%	07.10.2020 13:45
o-Terphenyl	74		83		70-135	%	07.10.2020 13:45

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3131399 — Matrix: Solid — Date Prep: 07.10.2020
MB Sample Id: 7707124-1-BLK — LCS Sample Id: 7707124-1-BKS — LCSD Sample Id: 7707124-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.110	110	0.116	116	70-130	5	35	mg/kg	07.10.2020 14:05	
Toluene	<0.00200	0.100	0.107	107	0.112	112	70-130	5	35	mg/kg	07.10.2020 14:05	
Ethylbenzene	<0.00200	0.100	0.103	103	0.108	108	71-129	5	35	mg/kg	07.10.2020 14:05	
m,p-Xylenes	<0.00400	0.200	0.208	104	0.218	109	70-135	5	35	mg/kg	07.10.2020 14:05	
o-Xylene	<0.00200	0.100	0.102	102	0.106	106	71-133	4	35	mg/kg	07.10.2020 14:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		99		99		70-130	%	07.10.2020 14:05
4-Bromofluorobenzene	93		100		99		70-130	%	07.10.2020 14:05

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3131399 — Matrix: Soil — Date Prep: 07.10.2020
Parent Sample Id: 666859-001 — MS Sample Id: 666859-001 S — MSD Sample Id: 666859-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.121	121	0.124	124	70-130	2	35	mg/kg	07.10.2020 19:39	
Toluene	<0.00201	0.100	0.126	126	0.113	113	70-130	11	35	mg/kg	07.10.2020 19:39	
Ethylbenzene	<0.00201	0.100	0.120	120	0.101	101	71-129	17	35	mg/kg	07.10.2020 19:39	
m,p-Xylenes	<0.00402	0.201	0.242	120	0.202	101	70-135	18	35	mg/kg	07.10.2020 19:39	
o-Xylene	<0.00201	0.100	0.120	120	0.0989	99	71-133	19	35	mg/kg	07.10.2020 19:39	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		100		70-130	%	07.10.2020 19:39
4-Bromofluorobenzene	100		101		70-130	%	07.10.2020 19:39

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

Chain of Custody

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, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 616859

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

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Longview 12-15
Project Number:	06062020
Project Location	
Sampler's Name:	Lynda Laumbach
PO #:	

Turn Around

☒ Routine ☐ Rush

Due Date: July 17, 2020

TAT starts the day received by the lab, if received by 4:30pm

SAMPLE RECEIPT

Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	IR#007
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	3.7
Total Containers:	3	Corrected Temperature:	3.5

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides (EPA 300.00)	BTEX (Method 8021)	TPH (Method 8015)
SW#1	S	07/09/2020	11:20	0-1'	comp	1		X	X	X
SW#2	S	07/09/2020	11:30	0-1.5'	comp	1		X	X	X
FS#1	S	07/09/2020	11:10	1-1.5'	comp	1		X	X	X

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

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 SiO_2 Na Sr Tl 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 Tl U Hg: **1631 / 245.1 / 7470 / 7471**

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		07/10/2020 11:15	2		
			4		
			6		

Revised Date 05012020 Rev. 2020.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WPX Energy Permian Basin, LLC

Date/ Time Received: 07.10.2020 11.15.00 AM

Work Order #: 666859

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	3.5	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Samples received in bulk containers.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 07.10.2020

Checklist reviewed by: Jessica Kramer Date: 07.14.2020

Jessica Kramer

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Certificate of Analysis Summary 666862

WPX Energy Permian Basin, LLC, Carlsbad, NM

Project Name: Longview 12-15

Project Id: 06062020
Contact: Lynda Laumbach
Project Location:

Date Received in Lab: Fri 07.10.2020 11:15
Report Date: 07.14.2020 14:12
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	666862-001		666862-002		666862-003					
	Field Id:	DS01		DS02		DS03					
	Depth:	2- ft		0- ft		0- ft					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	07.09.2020 11:40		07.09.2020 11:50		07.09.2020 11:55					
BTEX by EPA 8021B	***Extracted:***	07.10.2020 13:00		07.10.2020 13:00		07.10.2020 13:00					
	Analyzed:	07.10.2020 17:52		07.10.2020 18:13		07.10.2020 18:35					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201				
Toluene		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201				
Ethylbenzene		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201				
m,p-Xylenes		<0.00398	0.00398	<0.00404	0.00404	<0.00402	0.00402				
o-Xylene		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201				
Total Xylenes		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201				
Total BTEX		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201				
Chloride by EPA 300	***Extracted:***	07.10.2020 14:00		07.10.2020 14:00		07.10.2020 14:00					
	Analyzed:	07.10.2020 15:38		07.10.2020 15:44		07.10.2020 16:01					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		2840	49.6	72.4	10.0	215	10.0				
TPH By SW8015 Mod	***Extracted:***	07.10.2020 13:20		07.10.2020 13:20		07.10.2020 13:20					
	Analyzed:	07.13.2020 11:28		07.10.2020 16:09		07.10.2020 16:30					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1	<50.3	50.3	<50.2	50.2				
Diesel Range Organics (DRO)		54.8	50.1	<50.3	50.3	<50.2	50.2				
Motor Oil Range Hydrocarbons (MRO)		51.1	50.1	<50.3	50.3	<50.2	50.2				
Total TPH		106	50.1	<50.3	50.3	<50.2	50.2				

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 666862

for

WPX Energy Permian Basin, LLC

Project Manager: Lynda Laumbach

Longview 12-15

06062020

07.14.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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07.14.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **666862**
Longview 12-15
Project Address:

Lynda Laumbach:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 666862. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 666862 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 666862

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-15

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
DS01	S	07.09.2020 11:40	2 ft	666862-001
DS02	S	07.09.2020 11:50	0 ft	666862-002
DS03	S	07.09.2020 11:55	0 ft	666862-003

CASE NARRATIVE

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Client Name: WPX Energy Permian Basin, LLC

Project Name: Longview 12-15

Project ID: *06062020*
Work Order Number(s): *666862*

Report Date: *07.14.2020*
Date Received: *07.10.2020*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 666862

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-15

Sample Id:	**DS01**	Matrix:	Soil	Date Received:	07.10.2020 11:15
Lab Sample Id:	666862-001	Date Collected:	07.09.2020 11:40	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	07.10.2020 14:00	Basis:	Wet Weight
Seq Number:	3131392				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2840**	49.6	mg/kg	07.10.2020 15:38		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	07.10.2020 13:20	Basis:	Wet Weight
Seq Number:	3131397				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	07.13.2020 11:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	**54.8**	50.1	mg/kg	07.13.2020 11:28		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**51.1**	50.1	mg/kg	07.13.2020 11:28		1
Total TPH	PHC635	**106**	50.1	mg/kg	07.13.2020 11:28		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	70	%	70-135	07.13.2020 11:28	
o-Terphenyl	84-15-1	73	%	70-135	07.13.2020 11:28	

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Certificate of Analytical Results 666862

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-15

Sample Id:	**DS01**	Matrix:	Soil	Date Received:	07.10.2020 11:15
Lab Sample Id:	666862-001	Date Collected:	07.09.2020 11:40	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	07.10.2020 13:00	Basis:	Wet Weight
Seq Number:	3131399				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.10.2020 17:52	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.10.2020 17:52	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.10.2020 17:52	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.10.2020 17:52	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.10.2020 17:52	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.10.2020 17:52	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.10.2020 17:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	07.10.2020 17:52	
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.10.2020 17:52	

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Certificate of Analytical Results 666862

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-15

Sample Id:	**DS02**	Matrix:	Soil	Date Received:	07.10.2020 11:15
Lab Sample Id:	666862-002	Date Collected:	07.09.2020 11:50	Sample Depth:	0 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	07.10.2020 14:00	Basis:	Wet Weight
Seq Number:	3131392				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**72.4**	10.0	mg/kg	07.10.2020 15:44		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	07.10.2020 13:20	Basis:	Wet Weight
Seq Number:	3131397				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	07.10.2020 16:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	07.10.2020 16:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	07.10.2020 16:09	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	07.10.2020 16:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	07.10.2020 16:09	
o-Terphenyl	84-15-1	83	%	70-135	07.10.2020 16:09	

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Certificate of Analytical Results 666862

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-15

Sample Id:	**DS02**	Matrix:	Soil	Date Received:	07.10.2020 11:15
Lab Sample Id:	666862-002	Date Collected:	07.09.2020 11:50	Sample Depth:	0 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	07.10.2020 13:00	Basis:	Wet Weight
Seq Number:	3131399				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.10.2020 18:13	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.10.2020 18:13	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.10.2020 18:13	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	07.10.2020 18:13	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.10.2020 18:13	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	07.10.2020 18:13	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.10.2020 18:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.10.2020 18:13	
4-Bromofluorobenzene	460-00-4	104	%	70-130	07.10.2020 18:13	

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Certificate of Analytical Results 666862

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-15

Sample Id:	**DS03**	Matrix:	Soil	Date Received:	07.10.2020 11:15
Lab Sample Id:	666862-003	Date Collected:	07.09.2020 11:55	Sample Depth:	0 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	07.10.2020 14:00	Basis:	Wet Weight
Seq Number:	3131392				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**215**	10.0	mg/kg	07.10.2020 16:01		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	07.10.2020 13:20	Basis:	Wet Weight
Seq Number:	3131397				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	07.10.2020 16:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	07.10.2020 16:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	07.10.2020 16:30	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	07.10.2020 16:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	07.10.2020 16:30	
o-Terphenyl	84-15-1	80	%	70-135	07.10.2020 16:30	

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Certificate of Analytical Results 666862

WPX Energy Permian Basin, LLC, Carlsbad, NM

Longview 12-15

Sample Id:	**DS03**	Matrix:	Soil	Date Received:	07.10.2020 11:15
Lab Sample Id:	666862-003	Date Collected:	07.09.2020 11:55	Sample Depth:	0 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	07.10.2020 13:00	Basis:	Wet Weight
Seq Number:	3131399				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.10.2020 18:35	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.10.2020 18:35	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.10.2020 18:35	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.10.2020 18:35	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.10.2020 18:35	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.10.2020 18:35	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.10.2020 18:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	07.10.2020 18:35	
4-Bromofluorobenzene	460-00-4	99	%	70-130	07.10.2020 18:35	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 666862

WPX Energy Permian Basin, LLC

Longview 12-15

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3131392 — Matrix: Solid — Date Prep: 07.10.2020
MB Sample Id: 7707139-1-BLK — LCS Sample Id: 7707139-1-BKS — LCSD Sample Id: 7707139-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	243	97	255	102	90-110	5	20	mg/kg	07.10.2020 13:52	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3131392 — Matrix: Soil — Date Prep: 07.10.2020
Parent Sample Id: 666761-001 — MS Sample Id: 666761-001 S — MSD Sample Id: 666761-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	22.7	200	226	102	227	102	90-110	0	20	mg/kg	07.10.2020 14:09	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3131392 — Matrix: Soil — Date Prep: 07.10.2020
Parent Sample Id: 666861-002 — MS Sample Id: 666861-002 S — MSD Sample Id: 666861-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	13.7	200	217	102	217	102	90-110	0	20	mg/kg	07.10.2020 15:27	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131397 — Matrix: Solid — Date Prep: 07.10.2020
MB Sample Id: 7707153-1-BLK — LCS Sample Id: 7707153-1-BKS — LCSD Sample Id: 7707153-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1240	124	1230	123	70-135	1	35	mg/kg	07.10.2020 10:43	
Diesel Range Organics (DRO)	<50.0	1000	1200	120	1210	121	70-135	1	35	mg/kg	07.10.2020 10:43	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	86		111		114		70-135	%	07.10.2020 10:43
o-Terphenyl	83		97		99		70-135	%	07.10.2020 10:43

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131397 — Matrix: Solid — Date Prep: 07.10.2020
MB Sample Id: 7707153-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	07.10.2020 10:23	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 666862

WPX Energy Permian Basin, LLC

Longview 12-15

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131397 — Matrix: Soil — Date Prep: 07.10.2020
Parent Sample Id: 666859-001 — MS Sample Id: 666859-001 S — MSD Sample Id: 666859-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	1140	114	1150	115	70-135	1	35	mg/kg	07.10.2020 13:45	
Diesel Range Organics (DRO)	<50.1	1000	1140	114	1120	112	70-135	2	35	mg/kg	07.10.2020 13:45	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	87		98		70-135	%	07.10.2020 13:45
o-Terphenyl	74		83		70-135	%	07.10.2020 13:45

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3131399 — Matrix: Solid — Date Prep: 07.10.2020
MB Sample Id: 7707124-1-BLK — LCS Sample Id: 7707124-1-BKS — LCSD Sample Id: 7707124-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.110	110	0.116	116	70-130	5	35	mg/kg	07.10.2020 14:05	
Toluene	<0.00200	0.100	0.107	107	0.112	112	70-130	5	35	mg/kg	07.10.2020 14:05	
Ethylbenzene	<0.00200	0.100	0.103	103	0.108	108	71-129	5	35	mg/kg	07.10.2020 14:05	
m,p-Xylenes	<0.00400	0.200	0.208	104	0.218	109	70-135	5	35	mg/kg	07.10.2020 14:05	
o-Xylene	<0.00200	0.100	0.102	102	0.106	106	71-133	4	35	mg/kg	07.10.2020 14:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		99		99		70-130	%	07.10.2020 14:05
4-Bromofluorobenzene	93		100		99		70-130	%	07.10.2020 14:05

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3131399 — Matrix: Soil — Date Prep: 07.10.2020
Parent Sample Id: 666859-001 — MS Sample Id: 666859-001 S — MSD Sample Id: 666859-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.121	121	0.124	124	70-130	2	35	mg/kg	07.10.2020 19:39	
Toluene	<0.00201	0.100	0.126	126	0.113	113	70-130	11	35	mg/kg	07.10.2020 19:39	
Ethylbenzene	<0.00201	0.100	0.120	120	0.101	101	71-129	17	35	mg/kg	07.10.2020 19:39	
m,p-Xylenes	<0.00402	0.201	0.242	120	0.202	101	70-135	18	35	mg/kg	07.10.2020 19:39	
o-Xylene	<0.00201	0.100	0.120	120	0.0989	99	71-133	19	35	mg/kg	07.10.2020 19:39	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		100		70-130	%	07.10.2020 19:39
4-Bromofluorobenzene	100		101		70-130	%	07.10.2020 19:39

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

XENCO LABORATORIES

Chain of Custody

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, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 666682~~676676~~ 8268

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

Work Order Comments

Program: UST/PST ☐PRP ☐rownfields ☐RC ☐Superfund ☐
State of Project:
Reporting: Level II ☐Level III ☐ST/UST ☐RRP ☐Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Longview 12-15	Turn Around	
Project Number:	06062020	☒Routine	☐Rush
Project Location		Due Date:	July 17, 2020
Sampler's Name:	Lynda Laumbach	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	TNM007
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	3.7
Total Containers:	3	Corrected Temperature:	3.5

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chlorides (EPA 300.00)	BTEX (Method 8021)	TPH (Method 8015)	Sample Comments
DS01	S	07/09/2020	11:40	2	G	1	X	X	X	
DS02	S	07/09/2020	11:50	Surface	G	1	X	X	X	
DS03	S	07/09/2020	11:55	Surface	G	1	X	X	X	

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

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 SiO_2 Na Sr Tl 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 Tl 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 Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to 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
1 [signature]	[signature]	07/10/2020 11:15	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

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

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	246289
	Action Number: 34630
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	7/20/2021