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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company WPX Energy Production, LLC	Contact Deborah Watson
Address 721 S Main Ave, Aztec, NM	Telephone No. 505-333-1880
Facility Name W Lybrook Unit 746H	Facility Type Well Location

Surface Owner Indian	Lease Information: Federal	API No. 30-045-35751

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	07	23N	08W	1,235	South	2,325	East	San Juan

Latitude: N36.237642 **Longitude**: W107.721458 NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release Estimated 8 BBL	Volume Recovered Estimated 4 BBL
Source of Release Blender tub	Date and Hour of Occurrence 1/17/2018 @ 0530	Date and Hour of Discovery 1/17/2018 @ 0530
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

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

Describe Cause of Problem and Remedial Action Taken.*
While flushing well on bypass, blender tub inlet valve did not hold, releasing 8 bbl of produced water onto the location.

NMOCD
MAR 28 2018
DISTRICT III

Describe Area Affected and Cleanup Action Taken.*

- Hydrovac was called to location for fluid recovery. Recovered 4 bbl of produced water.
- All fluids remained on location.
- Impacted material removed on January 12, 2018, and transported to landfarm for disposal.
- One five-point confirmation sample was collected from within the impacted area on March 26, 2018. The sample (SC-1) was analyzed for BTEX, TPH (MRO/GRO/DRO), and chloride. NMOCD was notified prior to sample collection but not in attendance during sample collection.
- Analytical laboratory results were reported below the applicable NMOCD RRAL for benzene, total BTEX, and TPH (GRO+DRO) based on a site rank of 20.
- Analytical laboratory results are attached.
- No further action recommended.

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

Signature: Deborah Watson	OIL CONSERVATION DIVISION
Printed Name: Deborah Watson	Approved by Environmental Specialist:
Title: Environmental Specialist	Approval Date: 3/30/2018 Expiration Date:
E-mail Address: Deborah.watson@wpxenergy.com	Conditions of Approval: — Attached ☐
Date: March 28, 2018 Phone: 505-333-1880	

* Attach Additional Sheets If Necessary

NCS1803753364

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 28, 2018

Debbie Watson

WPX Energy
721 S Main Ave
Aztec, NM 87410
TEL: (505) 333-1880
FAX

RE: W Lybrook UT 746H PW Spill 1-17-18 OrderNo.: 1803D88

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/27/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1803D88**
Date Reported: **3/28/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Client Sample ID: SC-1
Project: W Lybrook UT 746H PW Spill 1-17-18
Collection Date: 3/26/2018 8:56:00 AM
Lab ID: 1803D88-001
Matrix: SOIL
Received Date: 3/27/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	290	30		mg/Kg	20	3/27/2018 11:40:52 AM	37258
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	3/27/2018 12:01:35 PM	R50102
Surr: BFB	121	70-130		%Rec	1	3/27/2018 12:01:35 PM	R50102
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	69	9.2		mg/Kg	1	3/27/2018 9:30:20 AM	37252
Motor Oil Range Organics (MRO)	110	46		mg/Kg	1	3/27/2018 9:30:20 AM	37252
Surr: DNOP	99.9	70-130		%Rec	1	3/27/2018 9:30:20 AM	37252
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.019		mg/Kg	1	3/27/2018 12:01:35 PM	S50102
Toluene	ND	0.037		mg/Kg	1	3/27/2018 12:01:35 PM	S50102
Ethylbenzene	ND	0.037		mg/Kg	1	3/27/2018 12:01:35 PM	S50102
Xylenes, Total	ND	0.075		mg/Kg	1	3/27/2018 12:01:35 PM	S50102
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	3/27/2018 12:01:35 PM	S50102
Surr: Toluene-d8	87.6	70-130		%Rec	1	3/27/2018 12:01:35 PM	S50102

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1803D88**

28-Mar-18

Client: WPX Energy

Project: W Lybrook UT 746H PW Spill 1-17-18

Sample ID	**MB-37258**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**37258**	RunNo:	**50104**					
Prep Date:	**3/27/2018**	Analysis Date:	**3/27/2018**	SeqNo:	**1623718**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-37258**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**37258**	RunNo:	**50104**					
Prep Date:	**3/27/2018**	Analysis Date:	**3/27/2018**	SeqNo:	**1623719**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1803D88**

28-Mar-18

Client: WPX Energy

Project: W Lybrook UT 746H PW Spill 1-17-18

Sample ID **LCS-37252**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **37252**	RunNo: **50087**							
Prep Date: **3/27/2018**	Analysis Date: **3/27/2018**	SeqNo: **1622167**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.5	70	130			
Surr: DNOP	4.7		5.000		94.7	70	130			

Sample ID **MB-37252**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **37252**	RunNo: **50087**							
Prep Date: **3/27/2018**	Analysis Date: **3/27/2018**	SeqNo: **1622168**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		98.6	70	130			

Sample ID **MB-37242**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **37242**	RunNo: **50089**							
Prep Date: **3/26/2018**	Analysis Date: **3/27/2018**	SeqNo: **1622213**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		104	70	130			

Sample ID **LCS-37242**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **37242**	RunNo: **50089**							
Prep Date: **3/26/2018**	Analysis Date: **3/27/2018**	SeqNo: **1622215**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		97.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1803D88**

28-Mar-18

Client: WPX Energy

Project: W Lybrook UT 746H PW Spill 1-17-18

Sample ID **100ng lcs**	SampType: **LCS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **S50102**	RunNo: **50102**
Prep Date:	Analysis Date: **3/27/2018**	SeqNo: **1622481** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	0.98	0.050	1.000	0	98.3	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.7	80	120			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.0	70	130			
Surr: Toluene-d8	0.49		0.5000		98.4	70	130			

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **S50102**	RunNo: **50102**
Prep Date:	Analysis Date: **3/27/2018**	SeqNo: **1622489** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.52		0.5000		105	70	130			
Surr: Toluene-d8	0.46		0.5000		92.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1803D88**

28-Mar-18

Client: WPX Energy

Project: W Lybrook UT 746H PW Spill 1-17-18

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R50102**	RunNo: **50102**
Prep Date:	Analysis Date: **3/27/2018**	SeqNo: **1622473** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.9	70	130			
Surr: BFB	480		500.0		95.2	70	130			

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R50102**	RunNo: **50102**
Prep Date:	Analysis Date: **3/27/2018**	SeqNo: **1622474** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	520		500.0		104	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: WPX ENERGY | Work Order Number: 1803D88 | RcptNo: 1

Received By: Anne Thorne 3/27/2018 7:50:00 AM Anne Thorne

Completed By: Anne Thorne 3/27/2018 8:13:02 AM Anne Thorne

Reviewed By: DJS 3/27/18

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: WPX Energy

Mailing Address: 721 S Main
Aztec, NM 87401

Phone #: 505 386 9693

email or Fax#: deborah.watson@wpxenergy.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☒ Rush same day

Project Name:
W Lybrook UT # 746H PW spill 1-17-18

Project #:

Project Manager:
D Watson

Sampler: DWatson

On Ice: ☒ Yes ☐ No

Sample Temperature: 4.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1803088	BTEX + MTBE + TPH (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO/DRO/MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F^-, Cl^-, NO_3^-, NO_2^-, PO_4^{3-}, SO_4^{2-})	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
3.26.18	856	soil	SC-1	1-4oz Mcoll.t	cold	001	X		X					X								

Date: 3/26/18 Time: 1517 Relinquished by: Deborah Watson
Received by: Mary Wright Date: 3/27/18 Time: 1517

Date: 3/26/18 Time: 1814 Relinquished by: Mary Wright
Received by: 03/27/18 0750

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

From:	Watson, Debbie
To:	Fields, Vanessa, EMNRD; Smith, Cory, EMNRD
Subject:	Sampling Results WLU 746H
Date:	Tuesday, March 27, 2018 3:34:00 PM
Attachments:	W Lybrook UT 746H PW Spill 1-17-18-fixed.pdf

Good Afternoon Vanessa and Cory,

Attached are the preliminary results for sample SC-1 collected from within the PW impacted area associated with a spill which occurred during completion activities for the WLU 746H. Results are also summarized below:

Chloride: 290 mg/kg
Benzene: <0.019 mg/kg
BTEX: < 0.168 mg/kg
TPH (GRO+DRO):69 mg/kg
MRO: 110 mg/kg

MRO is not a mobile contaminant and the low concentrations of MRO reported in the sample are not likely to have an impact to the environment or migrate off the location. WPX proposes to leave the area of SC-1 alone, no further action recommended.

Thank you,

Debbie

Deborah Watson
Environmental Specialist
PO Box 640 | Aztec, NM 87410
office 505.333.1880 | cell 505.386.9693 | fax 505.333.1805
deborah.watson@wpxenergy.com