

March 23, 2020 Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210

Re: North Brushy Draw Federal 35 #001H Release Closure Request (NRM2003458859)

Mr. Bratcher,

The following report summarizes the excavation and sampling activities at the North Brushy Draw Federal 35 #001H well pad. WPX requests no further action for this incident. The updated C-141 is included with 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 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	NRM2003458859
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC.		OGRID: 2	240207			
Contact Name: Lynda Laumbach			Contact T	elephone: (575) 725-1647		
Contact email: Lynda.Laumbach@wpxenergy.com			Incident #	t (assigned by OCD)		
Contact mail	ing address:	5315 Buena Vista	a Drive, Carlsbac	1, NM 8	8220	
			Location	n of F	Release S	
Latitude 32	2.09287		(NAD 83 in 0	decimal de	Longitude	-103.95341 mal places)
C' N N	4 D 1	D F 1 125	,			
		Draw Federal 35	#001H		• •	Production Facility
Date Release	Discovered:	12/28/2019			API# (if app	plicable): 30-015-39753
Unit Letter	Section	Township	Range		Cour	nty
В	35	25S	29E	Edd	y	
Surface Owner X Crude Oil Produced	Materia	Volume Release	Nature and attack (bbls): 8	nd Vo	lume of l	volume Recovered (bbls): 5 Volume Recovered (bbls):
		produced water	tion of dissolved >10,000 mg/l?	chlorid	e in the	☐ Yes ☐ No
Condensa	te	Volume Release	ed (bbls)			Volume Recovered (bbls)
☐ Natural G	ll Gas Volume Released (Mcf)			Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units))	Volume/Weight Recovered (provide units)		
containment.	rs on 12/28/ All fluids re	emained inside cond d to remediate the	ntainment. A vac release.	cuum tru	ck was used	8 8bbl of oil to be released inside the SPCC earthen to recover 5 bbls of standing fluids. An environmental stimated soil porosity(%)

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	NRM2003458859
District RP	
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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	sible party consider this a major release?	
Yes X No			
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?	
	Initial Ro	esponse	
The responsible p	party must undertake the following actions immediately	y unless they could create a safety hazard that would result in injury	
\overline{X} The source of the rele	ease has been stopped.		
X The impacted area ha	s been secured to protect human health and	the environment.	
X Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.			
X All free liquids and re	ecoverable materials have been removed and	l managed appropriately.	
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:.	
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: Lyno		Title: Environmental Specialist	
Signature:	Somback	Date: 12/30/2019	
email: Lynda.Laumbacl	h@wpxenergy.com	Telephone: (575)725-1647	
OCD Only			
Received by:Ramona	a Marcus	Date: <u>2/3/2020</u>	

Received by OCD: 3/23/2020 11:23:16 AM Form C-141 State of New Mexico Oil Conservation Division Page 3

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Incident ID	NRM2003458859
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 X No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🏻 No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes X No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No	
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes X 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 X No	
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X No	
Attach a comprehensive report (electronic submittals in .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.		
Change of the Decorate Chank of the Chank of the Change of		

Characterization Report Checklist: Each of the following items must be included in the report.
X Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
X Field data
X Data table of soil contaminant concentration data
X Depth to water determination
\overline{X} Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
\overline{X} Boring or excavation logs
Nhotographs 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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Application ID

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Incident ID	NRM2003458859
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Closure

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

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

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
X Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)	
$\overline{\mathbf{X}}$ Description of remediation activities		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and remuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the confidence with 19.15.29.13 NMAC including notification to the O	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.	
Printed Name: Lynda Laumbach	Title: Environmental Specialist	
Signature: Junda Sambach	Date: 03/23/2020	
email: Lynda.Laumbach@wpxenergy.com	Telephone:(575)725-1647	
OCD Only		
Received by:	Date:	
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.	
Closure Approved by:	Date:	
Printed Name:	Title:	



P.O. Box 1708 • Artesia, NM 88211 www.hrlcomp.com

March 15, 2020

Ms. Lynda Laumbach
WPX Energy, LLC
5315 Buena Vista Drive
Carlsbad, New Mexico 88220
Email: Lynda.Laumbach@wpxenergy.com

Subject:

Closure Report

North Brushy Draw Federal 35 #001H

API #: 30-015-39753 Eddy County, New Mexico

Dear Ms. Laumbach:

HRL Compliance Solutions, Inc. (HRL) is pleased to present this closure report for the release and subsequent remediation at the North Brushy Draw Federal 35 #001H production facility (Site). The Site is located in Eddy County, New Mexico (Figure 1). Photographs of the Site can be found in Attachment A.

Release Summary and Initial Response

On December 28, 2019, a release of eight barrels of crude oil was observed at the Site. This release occurred when a weld on the outlet of the oil tank failed. The crude oil impacted the area within secondary containment adjacent to the oil tank. A liner was not present within the secondary containment.

The volume released was between five barrels and 25 barrels; therefore, in accordance with New Mexico Administrative Code (NMAC) 19.15.29.7 this release is considered a minor release. On December 28, 2019 Lynda Laumbach of WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) District 2 on a Release Notification and Corrective Action Form (Form C-141) (Attachment B).

Item	Discussion
Site Name	North Brushy Draw Federal 35 #001H
Incident ID	NRM2003458859
Latitude	32.09287
Longitude	-103.95341
Township/Range/Section/Unit	Township 25 South/Range 29 East/ Section 35/Unit B
Date Release Discovered	December 28, 2019
Cause of Release	A weld on the outlet of the oil tank failed

Ms. Lynda Laumbach

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Item	Discussion
Type of Material Released	Crude oil
Volume Release	8 barrels
Volume Recovered	5 barrels
Volume Lost	3 barrels

Initial Site Assessment

On December 30, 2019, HRL mobilized to the Site to evaluate the release. HRL utilized a Trimble GeoXT global positioning system (GPS) unit to map the surficial extent of the release (Figure 2). Based on visual staining, the release impacted an approximate area of 590-square feet.

New Mexico Administrative Code (NMAC) Site Characterization Criteria

Title 19, Chapter 15, Part 29, Section 11 of the New Mexico Administrative Code (NMAC) provides requirements for release characterization once the free liquids and recoverable materials have been removed from the Site.

Site Map

A scaled diagram depicting the potentially impacted area and nearby significant features has been prepared (Figure 1).

Depth to Groundwater

Based on research from the New Mexico Office of the State Engineer (NMOSE), depth to groundwater is estimated to be greater than 50 feet below ground surface (Figure 3).

Wellhead Protection Area

There are no sources of water, including springs, wells, or other sources of fresh water within one-half mile of the release (Figure 4).

Distance to Nearest Significant Watercourse

A significant watercourse is defined as "...a watercourse with a defined bed and bank either named or identified by a dashed blue line on a USGS 7.5-minute quadrangle map or the next lower order tributary with a defined bed and bank" (19.15.17.7 NMAC). No significant watercourses are present within one-half mile of the extent of the release.

Ms. Lynda Laumbach Page 3



Additional Site Characterization Criteria

The following additional site characterization criteria were evaluated for the release.

Additional Site Characterization Criteria	Response/Discussion
Is the Site within 300 feet of a continuously flowing water or other significant watercourse?	No
Is the Site within 200 feet of a lakebed, sinkhole, or playa lake?	No
Is the Site within 300 feet of an occupied permanent residence, school, hospital institution, or church?	No
Is the Site within 500 feet of a spring or private, domestic fresh water well used by less than five households for domestic or stock watering purposes?	No
Is the Site within 1,000 feet of any fresh water well or spring?	No
Is the Site within 300 feet of a wetland?	No
Is the Site within the area overlying a subsurface mine?	No
Is the Site within an unstable area?	No
Is the Site within the 100-year floodplain?	No

Closure Criteria

Based on the NMAC Site Characterization Criteria, HRL has applied the following NMOCD Closure Criteria to the Site:

Depth to Groundwater	Parameter	Closure Criteria in milligrams per kilogram (mg/kg)
	Chloride	10,000 mg/kg or natural background, whichever is greater
51 feet to 100 feet below	Total Petroleum Hydrocarbons (TPH) [Gasoline Range Organics (GRO) + Diesel Range Organics (DRO) + Oil Range Organics (ORO)]	2,500 mg/kg
ground surface	Gasoline Range Organics (GRO) + Diesel Range Organics (DRO)	1,000 mg/kg
	Benzene	10 mg/kg
	Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX)	50 mg/kg

Ms. Lynda Laumbach Page 4



Remediation

Based on the presence of free liquids in the soil, it was determined that remediation of the impacted soil was necessary. WPX retained Kelley Oilfield Services to conduct the excavation of impacted soil. Remediation activity at the Site consisted of the excavation of impacted soil and off-site disposal at R360 Red Bluff, an exploration and production waste disposal facility located in Orla, Texas. Excavation activities began on January 9, 2020. HRL provided guidance for excavation activities based on collection of soil samples for analysis in the field (field screening) using field instrumentation. Field screening activities were conducted for:

- Chloride using an electrical conductivity (EC) meter in accordance with methods recommended by the U.S. Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS)
- Non-specific volatile organic compounds (VOCs) using a photoionization detector (PID) with a 10.6 electron-volt (eV) lamp
- Total petroleum hydrocarbons (TPH) using a PetroFlag® field test kit in accordance with U.S. Environmental Protection Agency (EPA) Method 9074

Additional excavation was conducted on January 31, 2020 following the results of analytical data exceeding NMOCD closure standards. Upon completion of remediation activities, HRL observed the total area of the excavation to be approximately 590-square feet (Figure 2) and 3 feet deep (Photographs, Attachment B).

Confirmatory Soil Samples

A confirmation sample plan was implemented utilizing a five-point composite sample strategy that represented areas less than 200-square feet, in accordance with 19.15.29.12 NMAC. Confirmatory soil samples were collected on January 16, 2020. Sample locations where initial confirmation samples exceeded NMOCD closure standards were resampled on February 11, 2020, following the completion of additional excavation (Figures 4 and 5). The confirmation samples were submitted to Hall Environmental Analysis Laboratory Inc., Albuquerque, New Mexico. The soil samples were analyzed for:

- Chloride by US EPA Method 300.0
- BTEX by US EPA Method 8021B
- TPH GRO, DRO, and ORO by US EPA Method 8015M

Final laboratory results are summarized in Table 1; analytical reports are included in Attachment C.

Conclusions and Recommendations

The presence of free liquids in the soil indicated remediation action was necessary to meet cleanup standards specified in 19.15.29.12 NMAC. Remediation action included excavation of impacted soil and off-site disposal. Final sample results indicate that the impacted area has been remediated to closure standards. Upon WPX's request, the site was backfilled with clean fill to accommodate the replacement of the tank in question. WPX requests no further action for this incident.

Ms. Lynda Laumbach Page 5



Scope and Limitations

The scope of HRL's services consists of performing site characterization, overseeing remediation, activities, confirmation sampling, and preparation of this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin.

If you have any questions or concerns, please do not hesitate to contact Kevin Smith at (575) 616-7398 Ext. 435 or via email at ksmith@hrlcomp.com.

Sincerely,

HRL Compliance Solutions, Inc.

julie !

Julie Linn, PG, RG Project Manager

Figures:

Figure 1: Site Location Map Figure 2: Impacted Area Map

Figure 3: Depth to Groundwater Map

Figure 4: Confirmation Sample Location Map - Footprint (Sample ID)
Figure 5: Confirmation Sample Location Map - Footprint (Sample Points)

Figure 6: Confirmation Sample Location Map – Sidewalls

Tables:

Table 1: Analytical Results Summary

Attachments:

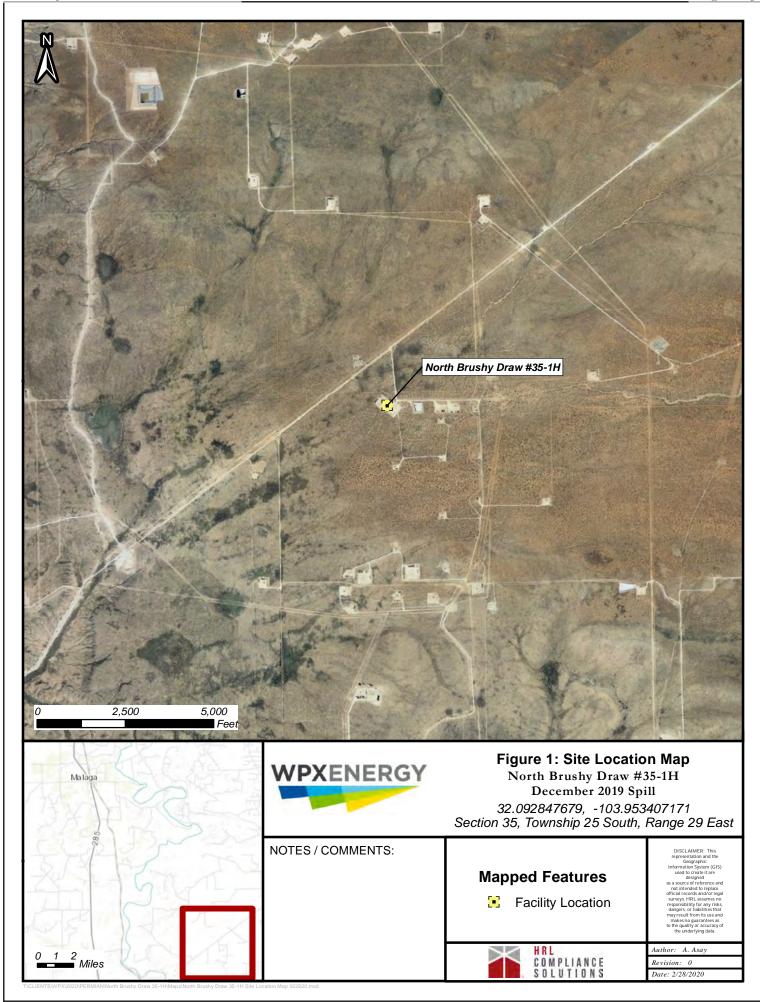
Attachment A: Photographs

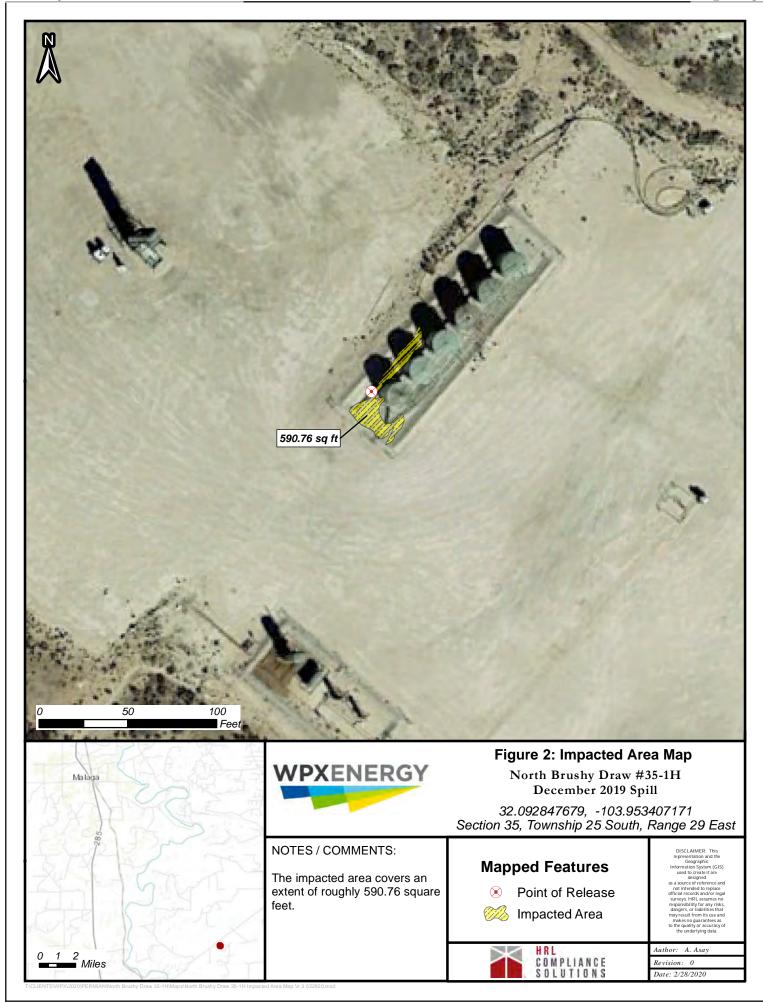
Attachment B: NMOCD Form C-141

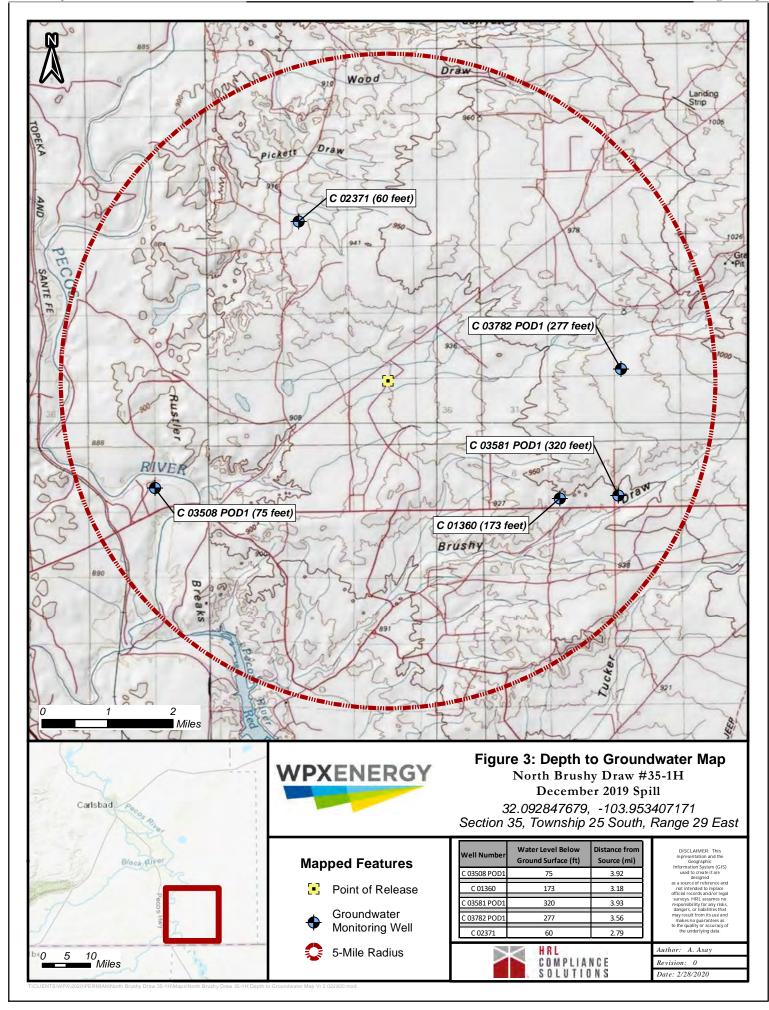
Attachment C: Laboratory Analytical Reports

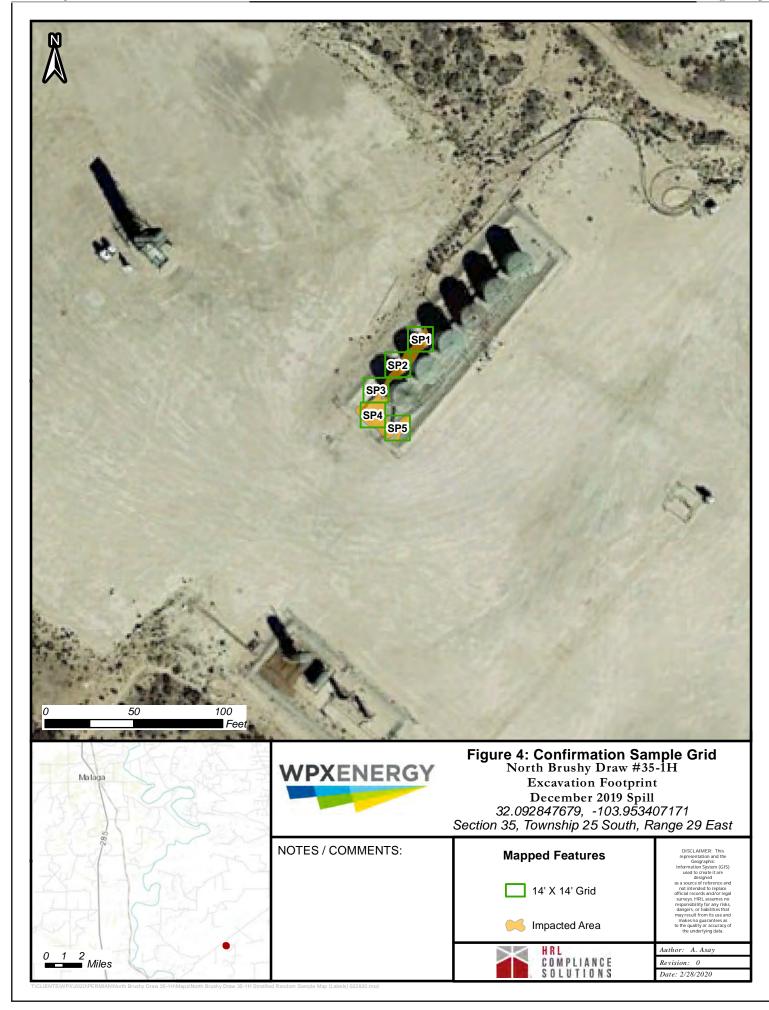


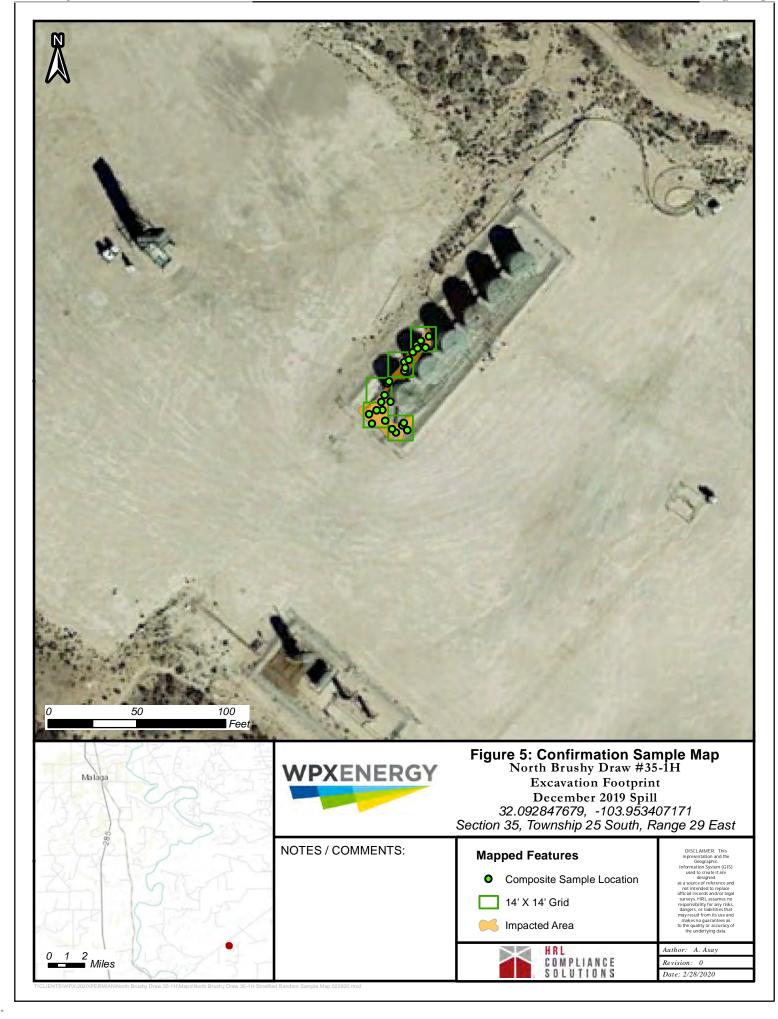
Figures

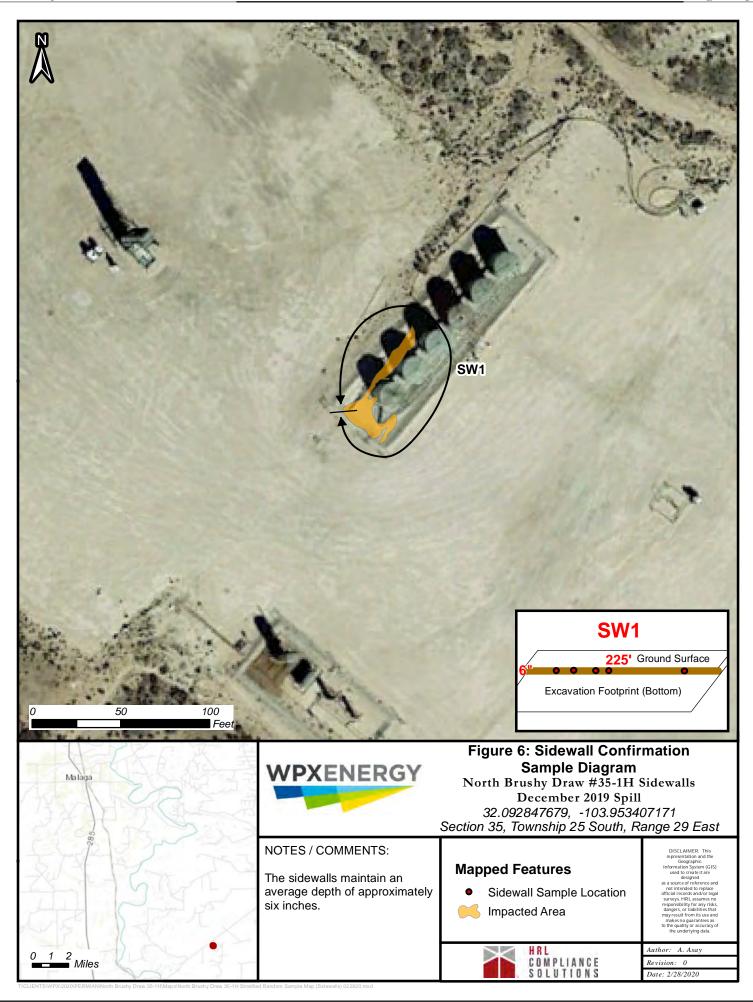














Tables



Table 1 Soil Sample Results WPX Energy Permian Basin, LLC North Brushy Draw Federal 35 #001H Eddy County, New Mexico

Sample ID	Depth (feet)	Sample Date	Chloride	Benzene	ВТЕХ	GRO + DRO	TPH
			Va	lues are in mil	lligrams per k	ilogram (mg/l	kg)
NMOCD Closure Criteria (Groundwater greater than 100 feet) *			20,000	10	50	1,000	2,500
FP1	2	1/16/2020	1,300	ND	2.3	1,746	2,316
FP1	3	2/11/2020	NS	NS	NS	ND	ND
FP2	2	1/16/2020	710	0.11	16	5,260	6,860
FP2	3	2/11/2020	NS	NS	NS	ND	ND
FP3	2	1/16/2020	310	ND	0.95	1,646	2,256
FP3	3	2/11/2020	NS	NS	NS	ND	ND
FP4	2	1/16/2020	700	0.052	7.5	6,330	9,830
FP4	3	2/11/2020	NS	NS	NS	ND	ND
FP5	2	1/16/2020	330	ND	0.16	2,925	3,925
FP5	3	2/11/2020	NS	NS	NS	ND	ND
SW1	2	1/16/2020	450	ND	ND	1,408	1,958
SW1	3	2/11/2020	NS	NS	NS	ND	ND

Notes:

NMOCD: New Mexico Oil Conservation Division

GRO: Gasoline Range Organics DRO: Diesel Range Organics

TPH: Total Petroleum Hydrocarbons

NS: Not Sampled

Results shaded in grey exceed closure criteria

* Closure Criteria specified in 19.15.17.13 NMAC



Attachment A Photographs



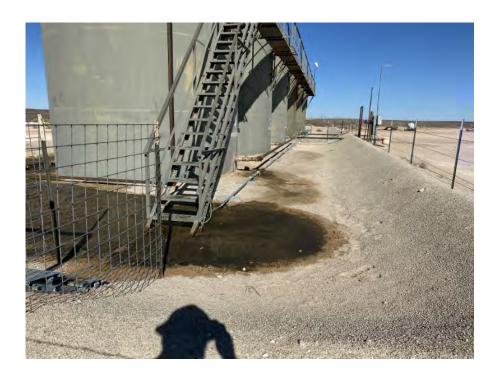


Impacted Area December 30, 2019



Impacted Area December 30, 2019





Impacted Area December 30, 2019



Impacted Area December 30, 2019





Remediated Area January 16, 2020



Remediated Area January 16, 2020





Remediated Area January 16, 2020



Remediated Area January 16, 2020



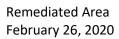


Remediated Area February 16, 2020



Remediated Area February 16, 2020







Remediated Area February 26, 2020





Attachment B

NMOCD Form C-141

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	
District RP	
Facility ID	
Application ID	

Release Notification

			Dage	o z (o ozzao	4				
			Resp	onsible Pa	rty				
Responsible	Party: WPX	Energy Permian,	LLC.	OGRIE	D: 246289				
Contact Nam	ne: Lynda La	umbach		Contac	t Telephone: (575)	725-1647			
Contact ema	il: Lynda.La	umbach@wpxene	rgy.com	Inciden	t # (assigned by OCD))			
Contact mail	ing address:	5315 Buena Vista	Drive, Carlsbad,	NM 88220					
			Location	of Release	Source				
Latitude 3	2.09287			Longitud	le -103.95341				
			(NAD 83 in dec	cimal degrees to 5 d	lecimal places)				
Site Name: N	orth Brushy	Draw Federal 35 a	#001H	Site Typ	pe: Production Faci	ility			
Date Release Discovered: 12/28/2019 API#			API# (if	API# (if applicable): 30-015-39753					
TT '. T									
Unit Letter B	Section 35	Township 25S	Range 29E	County Eddy					
Б	33	233	29E	Eddy					
Surface Owner	r: State	🛚 Federal 🗌 Tr	ibal Private (1	Name:)			
			Nature and						
X Crude Oi		Volume Release		calculations or spec		e volumes provided below)			
Produced		Volume Release				Volume Recovered (bbls): 5			
Produced	water		,	11 '1 ' 1		Volume Recovered (bbls):			
		produced water	ion of dissolved c >10.000 mg/l?	thloride in the	Yes No				
Condensa	ite	Volume Release			Volume Reco	vered (bbls)			
☐ Natural Gas Volume Released (Mcf)		Volume Reco	overed (Mcf)						
Other (describe) Volume/Weight Released (provide units)		e units)	Volume/Weight Recovered (provide units)						
containment.	rs on 12/28/2 All fluids re		tainment. A vacu			e released inside the SPCC earthen ls of standing fluids. An environmental			

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

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		-,,	

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	sible party consider this a major release?
Yes X No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Re	esponse
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 rele	ease has been stopped.	
X The impacted area ha	s been secured to protect human health and	the environment.
X Released materials ha	we been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
X All free liquids and re	ecoverable materials have been removed and	l managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	/hy:.
		emediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
public health or the environr	ment. The acceptance of a C-141 report by the O	ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have
		at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name:Lyn	da Laumbach	Title: Environmental Specialist
Signature:	Sombach	Date: 12/30/2019
email: Lynda.Laumbac	h@wpxenergy.com	Telephone: (575)725-1647
OCD Only		
Received by:		Date:



Attachment C Laboratory Analytical Reports



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

OrderNo.: 2001768

January 27, 2020

Lynda Laumbauch WPX Energy 5315 Buena Vista Drive Carlsbad, NM 88220 TEL: (505) 386-9693

FAX:

RE: North Brushy Draw 35-1

Dear Lynda Laumbauch:

Hall Environmental Analysis Laboratory received 6 sample(s) on 1/21/2020 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2001768

Date Reported: 1/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy Client Sample ID: FP1

 Project:
 North Brushy Draw 35-1
 Collection Date: 1/16/2020 11:41:00 AM

 Lab ID:
 2001768-001
 Matrix: SOIL
 Received Date: 1/21/2020 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	1300	60		mg/Kg	20	1/23/2020 3:20:03 PM	49992
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	1700	96		mg/Kg	10	1/23/2020 9:50:55 AM	49989
Motor Oil Range Organics (MRO)	570	480		mg/Kg	10	1/23/2020 9:50:55 AM	49989
Surr: DNOP	0	55.1-146	S	%Rec	10	1/23/2020 9:50:55 AM	49989
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	46	5.0		mg/Kg	1	1/23/2020 8:33:29 PM	49978
Surr: BFB	378	66.6-105	S	%Rec	1	1/23/2020 8:33:29 PM	49978
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	1/23/2020 8:33:29 PM	49978
Toluene	0.095	0.050		mg/Kg	1	1/23/2020 8:33:29 PM	49978
Ethylbenzene	0.21	0.050		mg/Kg	1	1/23/2020 8:33:29 PM	49978
Xylenes, Total	2.3	0.099		mg/Kg	1	1/23/2020 8:33:29 PM	49978
Surr: 4-Bromofluorobenzene	119	80-120		%Rec	1	1/23/2020 8:33:29 PM	49978

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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CLIENT: WPX Energy

Analytical Report

Lab Order **2001768**Date Reported: **1/27/2020**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: FP2

Project: North Brushy Draw 35-1 **Collection Date:** 1/16/2020 11:52:00 AM

Lab ID: 2001768-002 **Matrix:** SOIL **Received Date:** 1/21/2020 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	710	60		mg/Kg	20	1/23/2020 3:32:24 PM	49992
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	5000	93		mg/Kg	10	1/23/2020 10:30:50 AM	49989
Motor Oil Range Organics (MRO)	1600	470		mg/Kg	10	1/23/2020 10:30:50 AM	49989
Surr: DNOP	0	55.1-146	S	%Rec	10	1/23/2020 10:30:50 AM	49989
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	260	4.8		mg/Kg	1	1/23/2020 9:43:41 PM	49978
Surr: BFB	1120	66.6-105	S	%Rec	1	1/23/2020 9:43:41 PM	49978
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	0.11	0.024		mg/Kg	1	1/23/2020 9:43:41 PM	49978
Toluene	3.5	0.048		mg/Kg	1	1/23/2020 9:43:41 PM	49978
Ethylbenzene	2.0	0.048		mg/Kg	1	1/23/2020 9:43:41 PM	49978
Xylenes, Total	16	0.95		mg/Kg	10	1/24/2020 2:35:27 PM	49978
Surr: 4-Bromofluorobenzene	184	80-120	S	%Rec	1	1/23/2020 9:43:41 PM	49978

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2001768

Date Reported: 1/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy Client Sample ID: FP3

 Project:
 North Brushy Draw 35-1
 Collection Date: 1/16/2020 11:59:00 AM

 Lab ID:
 2001768-003
 Matrix: SOIL
 Received Date: 1/21/2020 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	310	60		mg/Kg	20	1/23/2020 3:44:46 PM	49992
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst:	BRM
Diesel Range Organics (DRO)	1600	98		mg/Kg	10	1/23/2020 10:40:00 AM	49989
Motor Oil Range Organics (MRO)	610	490		mg/Kg	10	1/23/2020 10:40:00 AM	49989
Surr: DNOP	0	55.1-146	S	%Rec	10	1/23/2020 10:40:00 AM	49989
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	46	4.9		mg/Kg	1	1/23/2020 10:53:55 PM	49978
Surr: BFB	387	66.6-105	S	%Rec	1	1/23/2020 10:53:55 PM	49978
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.024		mg/Kg	1	1/23/2020 10:53:55 PM	49978
Toluene	0.073	0.049		mg/Kg	1	1/23/2020 10:53:55 PM	49978
Ethylbenzene	0.14	0.049		mg/Kg	1	1/23/2020 10:53:55 PM	49978
Xylenes, Total	0.95	0.097		mg/Kg	1	1/23/2020 10:53:55 PM	49978
Surr: 4-Bromofluorobenzene	115	80-120		%Rec	1	1/23/2020 10:53:55 PM	49978

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2001768

Date Reported: 1/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy Client Sample ID: FP4

 Project:
 North Brushy Draw 35-1
 Collection Date: 1/16/2020 12:05:00 PM

 Lab ID:
 2001768-004
 Matrix: SOIL
 Received Date: 1/21/2020 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	700	60		mg/Kg	20	1/23/2020 3:57:08 PM	49992
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	CLP
Diesel Range Organics (DRO)	6200	460		mg/Kg	50	1/23/2020 4:18:32 PM	49989
Motor Oil Range Organics (MRO)	3500	2300		mg/Kg	50	1/23/2020 4:18:32 PM	49989
Surr: DNOP	0	55.1-146	S	%Rec	50	1/23/2020 4:18:32 PM	49989
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	130	4.7		mg/Kg	1	1/23/2020 11:17:21 PM	49978
Surr: BFB	645	66.6-105	S	%Rec	1	1/23/2020 11:17:21 PM	49978
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	0.052	0.024		mg/Kg	1	1/23/2020 11:17:21 PM	49978
Toluene	1.6	0.047		mg/Kg	1	1/23/2020 11:17:21 PM	49978
Ethylbenzene	1.0	0.047		mg/Kg	1	1/23/2020 11:17:21 PM	49978
Xylenes, Total	7.5	0.095		mg/Kg	1	1/23/2020 11:17:21 PM	49978
Surr: 4-Bromofluorobenzene	146	80-120	S	%Rec	1	1/23/2020 11:17:21 PM	49978

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2001768

Date Reported: 1/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy Client Sample ID: FP5

Project: North Brushy Draw 35-1
 Collection Date: 1/16/2020 12:15:00 PM

 Lab ID: 2001768-005
 Matrix: SOIL
 Received Date: 1/21/2020 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	330	60		mg/Kg	20	1/23/2020 4:34:11 PM	49992
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	2900	94		mg/Kg	10	1/23/2020 10:58:13 AM	49989
Motor Oil Range Organics (MRO)	1000	470		mg/Kg	10	1/23/2020 10:58:13 AM	49989
Surr: DNOP	0	55.1-146	S	%Rec	10	1/23/2020 10:58:13 AM	49989
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	25	5.0		mg/Kg	1	1/23/2020 11:40:40 PM	49978
Surr: BFB	296	66.6-105	S	%Rec	1	1/23/2020 11:40:40 PM	49978
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	1/23/2020 11:40:40 PM	49978
Toluene	ND	0.050		mg/Kg	1	1/23/2020 11:40:40 PM	49978
Ethylbenzene	ND	0.050		mg/Kg	1	1/23/2020 11:40:40 PM	49978
Xylenes, Total	0.16	0.099		mg/Kg	1	1/23/2020 11:40:40 PM	49978
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	1/23/2020 11:40:40 PM	49978

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2001768

Date Reported: 1/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy Client Sample ID: SW1

 Project:
 North Brushy Draw 35-1
 Collection Date: 1/16/2020 11:33:00 AM

 Lab ID:
 2001768-006
 Matrix: SOIL
 Received Date: 1/21/2020 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	450	60		mg/Kg	20	1/24/2020 1:37:28 AM	50009
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst:	BRM
Diesel Range Organics (DRO)	1400	89		mg/Kg	10	1/23/2020 11:07:22 AM	49989
Motor Oil Range Organics (MRO)	550	440		mg/Kg	10	1/23/2020 11:07:22 AM	49989
Surr: DNOP	0	55.1-146	S	%Rec	10	1/23/2020 11:07:22 AM	49989
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	8.6	5.0		mg/Kg	1	1/24/2020 12:04:01 AM	49978
Surr: BFB	168	66.6-105	S	%Rec	1	1/24/2020 12:04:01 AM	49978
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.025		mg/Kg	1	1/24/2020 12:04:01 AM	49978
Toluene	ND	0.050		mg/Kg	1	1/24/2020 12:04:01 AM	49978
Ethylbenzene	ND	0.050		mg/Kg	1	1/24/2020 12:04:01 AM	49978
Xylenes, Total	ND	0.099		mg/Kg	1	1/24/2020 12:04:01 AM	49978
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	1/24/2020 12:04:01 AM	49978

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

27-Jan-20

2001768

Client:

WPX Energy

Project:

Analyte

Chloride

North Brushy Draw 35-1

Sample ID: MB-50009

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 50009

RunNo: 66045

%REC LowLimit

Prep Date: 1/23/2020

Analysis Date: 1/23/2020

PQL

1.5

SeqNo: 2268022

Units: mq/Kq

HighLimit

RPDLimit Qual

WO#:

Sample ID: LCS-50009

SampType: Ics

Result

Result

ND

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 50009 Analysis Date: 1/23/2020

PQL

RunNo: 66045

SeqNo: 2268023

Units: mg/Kg

110

HighLimit

Qual

Analyte Chloride

Prep Date:

1/23/2020

14 1.5 SPK value SPK Ref Val 15.00

SPK value SPK Ref Val

%REC LowLimit 92.5

%RPD

%RPD

RPDLimit

Sample ID: MB-49992

Client ID: PBS

Prep Date: 1/23/2020

Client ID: LCSS

SampType: mblk Batch ID: 49992

Analysis Date: 1/23/2020

PQL

1.5

RunNo: 66016

TestCode: EPA Method 300.0: Anions

Units: mq/Kq

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

SeqNo: 2268195

HighLimit

%RPD

RPDLimit

Qual

Chloride

Sample ID: LCS-49992

SampType: Ics

Batch ID: 49992

PQL

TestCode: EPA Method 300.0: Anions

RunNo: 66016

Units: mg/Kg

%RPD

RPDLimit Qual

Analyte

Prep Date: 1/23/2020

Analysis Date: 1/23/2020

14

Result

ND

SPK value SPK Ref Val

%REC

n

SeqNo: 2268196

LowLimit 90 HighLimit 110

Chloride

1.5

15.00

92.9

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range Reporting Limit

RL

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Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

2001768 27-Jan-20

WO#:

Client:

WPX Energy

Project:

Sample ID: MB-49989

North Brushy Draw 35-1

Sample ID: LCS-49989 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 66004 Client ID: LCSS Batch ID: 49989 Prep Date: 1/23/2020 Analysis Date: 1/23/2020 SeqNo: 2266978 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 50 10 50.00 Λ 100 63.9 124 Surr: DNOP 4.5 5.000 89.5 55.1 146

Client ID: PBS Batch ID: 49989 RunNo: 66004 Prep Date: 1/23/2020 Analysis Date: 1/23/2020 SeqNo: 2266979 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 9.3 10.00 93.0 55.1 146

TestCode: EPA Method 8015M/D: Diesel Range Organics

Sample ID: MB-50023 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 50023 RunNo: 66047 Prep Date: 1/24/2020 Analysis Date: 1/24/2020 SeqNo: 2268100 Units: %Rec Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 10.00 55.1 108 146

Sample ID: LCS-50023 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 50023 RunNo: 66047 Prep Date: 1/24/2020 Analysis Date: 1/24/2020 SeqNo: 2268101 Units: %Rec SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual

Surr: DNOP 5.1 5.000 103 55.1 146

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2001768 27-Jan-20

WO#:

Client:

WPX Energy

Project:

North Brushy Draw 35-1

Sample ID: mb-49978 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range PBS

Client ID: Batch ID: 49978 RunNo: 66017

1/22/2020 Prep Date: Analysis Date: 1/23/2020 SeqNo: 2267664 Units: mg/Kg

PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 890

1000 88.5 66.6 105

Sample ID: Ics-49978 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 49978 RunNo: 66017

Prep Date: 1/22/2020 Analysis Date: 1/23/2020 SeqNo: 2267665 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 92.7 80 120 Surr: BFB 990 1000 99.4 66.6 105

Sample ID: 2001768-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: FP1 Batch ID: 49978 RunNo: 66017

Prep Date: 1/22/2020 Analysis Date: 1/23/2020 SeqNo: 2267667 Units: mg/Kg

Result SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) 58 5.0 24.98 46.01 47.8 69.1 142 S Surr: BFB S 999.0 66.6 3200 320 105

TestCode: EPA Method 8015D: Gasoline Range Sample ID: 2001768-001amsd SampType: MSD

Client ID: FP1 Batch ID: 49978 RunNo: 66017

Prep Date: 1/22/2020 Analysis Date: 1/23/2020 SeqNo: 2267668 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 64 4.9 46.01 73.3 9.85 20 24.46 69.1 142 Surr: BFB 3300 978.5 340 66.6 105 0 S 0

Sample ID: MB-50043 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range PRS

Client ID: Batch ID: 50043 RunNo: 66068

Prep Date: 1/24/2020 Analysis Date: 1/27/2020 SegNo: 2269049 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: BFB 770 1000 77.0 66.6 105

Sample ID: LCS-50043 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 50043 RunNo: 66068

Prep Date: 1/24/2020 Analysis Date: 1/27/2020 SeqNo: 2269050 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: BFB 890 1000 89.0 66.6 105

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2001768 27-Jan-20**

Client:

WPX Energy

Project:

North Brushy Draw 35-1

Sample ID: mb-49978 SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBS Client ID: Batch ID: 49978 RunNo: 66017 Prep Date: 1/22/2020 Analysis Date: 1/23/2020 SeqNo: 2267696 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene ND 0.025 Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.0 1.000 99.9 80 120

Sample ID: LCS-49978 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 49978 RunNo: 66017 Units: mg/Kg Prep Date: 1/22/2020 Analysis Date: 1/23/2020 SeqNo: 2267697 PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.98 0.025 1.000 97.8 80 120 Benzene Toluene 0.96 0.050 1.000 0 96.3 80 120 0.050 0 96.3 80 Ethylbenzene 0.96 1.000 120 2.9 0.10 3.000 0 97.0 80 120 Xylenes, Total Surr: 4-Bromofluorobenzene 1.0 1.000 103 80 120

Sample ID: 2001768-002ams	Sampl	SampType: MS			TestCode: EPA Method 8021B: Volatiles									
Client ID: FP2	Batc	h ID: 49 9	978	F	RunNo: 6									
Prep Date: 1/22/2020	Analysis Date: 1/23/2020			9	SeqNo: 2	267700	Units: mg/K	(g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	1.1	0.025	0.9804	0.1120	105	78.5	119							
Toluene	4.3	0.049	0.9804	3.523	74.9	75.7	123			S				
Ethylbenzene	3.0	0.049	0.9804	2.028	99.9	74.3	126							
Xylenes, Total	17	0.098	2.941	14.25	78.6	72.9	130			E				
Surr: 4-Bromofluorobenzene	1.7		0.9804		177	80	120			S				

Sample ID: 2001768-002amsd	SampT	ype: MS	SD	Tes						
Client ID: FP2	Batch	ID: 49 9	978	F	RunNo: 60	6017				
Prep Date: 1/22/2020	Analysis D	ate: 1/2	23/2020	8	SeqNo: 2267701 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9524	0.1120	105	78.5	119	2.65	20	
Toluene	4.1	0.048	0.9524	3.523	65.1	75.7	123	2.70	20	S
Ethylbenzene	2.9	0.048	0.9524	2.028	90.9	74.3	126	3.86	20	
Xylenes, Total	16	0.095	2.857	14.25	59.5	72.9	130	3.75	20	ES
Surr: 4-Bromofluorobenzene	1.7		0.9524		176	80	120	0	0	S

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2001768

27-Jan-20

Client:

WPX Energy

Project:

Analyte

North Brushy Draw 35-1

Sample ID: MB-50043

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Client ID: PBS

Batch ID: 50043

RunNo: 66068

Prep Date: 1/24/2020

Analysis Date: 1/27/2020

SeqNo: 2269077 Units: %Rec

LowLimit

%RPD

Qual

Surr: 4-Bromofluorobenzene

0.87 SampType: LCS

Result

1.000

SPK value SPK Ref Val

86.6

80 120 **RPDLimit**

Sample ID: LCS-50043

Batch ID: 50043

RunNo: 66068

%REC

Client ID: LCSS Prep Date: 1/24/2020

Analysis Date: 1/27/2020

SeqNo: 2269078

Units: %Rec

HighLimit

%RPD

Analyte

1.000

87.7

HighLimit

RPDLimit

TestCode: EPA Method 8021B: Volatiles

Surr: 4-Bromofluorobenzene

120

SPK value SPK Ref Val %REC LowLimit

Qual

Result 0.88

Qualifiers:

D

Value exceeds Maximum Contaminant Level

Sample Diluted Due to Matrix Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits Reporting Limit

RL

Sample pH Not In Range

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

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Sample Log-In Check List

LABORATORY

Client Name: WPX ENERGY CARLSB	Work Order Number	er: 200	1768			RcptNo: 1
Received By: Isaiah Ortiz	1/21/2020 9:00:00 A	М		I	-(24
Completed By: Isaiah Ortiz	1/21/2020 9:22:39 A	М		1	-0	24
Reviewed By: DAD 1/21/20						
Chain of Custody						
1. Is Chain of Custody sufficiently complete?		Yes	V	No		Not Present
2. How was the sample delivered?		Cou	<u>ier</u>			
Log In						
3. Was an attempt made to cool the samples?		Yes	V	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	V	No		
6. Sufficient sample volume for indicated test(s)?	Yes	V	No		
7. Are samples (except VOA and ONG) proper	y preserved?	Yes	V	No		
8. Was preservative added to bottles?		Yes		No	V	NA 🗌
9. Received at least 1 vial with headspace <1/4	" for AQ VOA?	Yes		No		NA 🗹 /
0. Were any sample containers received broke	n?	Yes		No	~	
1.0						# of preserved bottles checked
Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	~	No		for pH:
2. Are matrices correctly identified on Chain of	Custody?	Yes	V	No		(<2 of >12 unless noted Adjusted?
3. Is it clear what analyses were requested?	outlouy!		V			1
4. Were all holding times able to be met?		Yes				Checked by Y6 \U\ 2
(If no, notify customer for authorization.)		, 00				
pecial Handling (if applicable)						
5. Was client notified of all discrepancies with t	his order?	Yes		No		NA 🗸
Person Notified:	Date:	i in the second			annual .	
By Whom:	Via:	□ eMa	і ПР	hone 🗍	Fax	☐ In Person
Regarding:					-111	
Client Instructions:					-	The second secon

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Not Present			

HALL ENVIRONMENTA ANALYSIS LABORATOL ANALYSIS LABORATOL ANAW. hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	8081 Pesticides/8082 PCB's 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals RCRA 8 Metals 8250 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)	Date Time Remarks: Please Scnd report to Julie Linn Date Time Jinn Dhricomp. com Jinn Dhricomp. com serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
9	Sampler: Elwell, Hell Comp. Cooler Tempineusing cp. C. 2 + 6.2 f. F. C. 4 · C. Type and # Type	
Chain-of-Custody Record Client: WPX Att n. Lynda Laumbauch Mailing Address: 5315 Buena Vista Carlsbad, NM 88 220 Phone #: 575-725-1647 email or Fax#: lynda, laumbauch	X Standard Level 4 (Full Validation) Accreditation: Az Compliance NELAC Other Other EDD (Type) FP NELT 1857 Sxi FP 2 NELT 1205 Sxi FP 2 NELT 1205 Sxi FP 5 NELT 1205 Sxi FP 5	Date: Time: Relinquished by: Date: Time: Relinquished by: Received by:



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

OrderNo.: 2002595

February 19, 2020

Julie Linn WPX Energy 5315 Buena Vista Drive Carlsbad, NM 88220 TEL: (505) 386-9693

RE: North Brushy Draw 35 1

Dear Julie Linn:

FAX

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/14/2020 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: **2002595**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/19/2020

CLIENT: WPX Energy Lab Order: 2002595

Project: North Brushy Draw 35 1

Lab ID: 2002595-001 **Collection Date:** 2/11/2020 1:06:00 PM

Client Sample ID: FP1 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 2/18/2020 7:14:47 PM 9.7 mg/Kg 1 50486 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 2/18/2020 7:14:47 PM 50486 Surr: DNOP 86.8 55.1-146 %Rec 1 2/18/2020 7:14:47 PM 50486 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) 2/19/2020 12:38:24 AM 50481 ND 4.6 mg/Kg Surr: BFB 82.8 66.6-105 %Rec 2/19/2020 12:38:24 AM 50481

Lab ID: 2002595-002 **Collection Date:** 2/11/2020 1:08:00 PM

Client Sample ID: FP2 Matrix: SOIL

RL Qual Units DF Date Analyzed Analyses Result **Batch ID EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 2/18/2020 7:23:57 PM 50486 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 2/18/2020 7:23:57 PM 50486 Surr: DNOP 89.5 55.1-146 %Rec 2/18/2020 7:23:57 PM 50486 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 2/19/2020 1:01:50 AM 4.9 mg/Kg 1 50481 Surr: BFB 83.9 66.6-105 %Rec 2/19/2020 1:01:50 AM 50481

Lab ID: 2002595-003 **Collection Date:** 2/11/2020 1:11:00 PM

Client Sample ID: FP3 Matrix: SOIL

Result RL Qual Units DF Date Analyzed **Analyses Batch ID EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND mg/Kg 2/18/2020 7:33:07 PM 9.6 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 2/18/2020 7:33:07 PM 50486 Surr: DNOP 95.3 55.1-146 %Rec 2/18/2020 7:33:07 PM 50486 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 2/19/2020 1:25:16 AM 4.8 mg/Kg 1 50481 Surr: BFB 82.0 66.6-105 %Rec 2/19/2020 1:25:16 AM 50481

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 4

CLIENT:

Analytical Report

Lab Order: 2002595

Lab Order:

Date Reported: 2/19/2020

2002595

Hall Environmental Analysis Laboratory, Inc.

WPX Energy

 Project:
 North Brushy Draw 35 1

 Lab ID:
 2002595-004
 Collection Date: 2/11/2020 1:16:00 PM

Client Sample ID: FP4 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 9.9 2/18/2020 7:42:18 PM mg/Kg 1 50486 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 2/18/2020 7:42:18 PM 50486 Surr: DNOP 88.9 55.1-146 %Rec 1 2/18/2020 7:42:18 PM 50486 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.8 mg/Kg 2/19/2020 2:35:30 AM 50481 Surr: BFB 83.2 66.6-105 %Rec 2/19/2020 2:35:30 AM 50481

Lab ID: 2002595-005 **Collection Date:** 2/11/2020 1:18:00 PM

Client Sample ID: FP5 Matrix: SOIL

RL Qual Units DF Date Analyzed Analyses Result **Batch ID EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 9.0 mg/Kg 1 2/18/2020 7:51:28 PM 50486 Motor Oil Range Organics (MRO) ND 2/18/2020 7:51:28 PM 45 mg/Kg 1 50486 Surr: DNOP 83.3 55.1-146 %Rec 2/18/2020 7:51:28 PM 50486 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 2/19/2020 2:58:50 AM 4.8 mg/Kg 1 50481 Surr: BFB 81.4 66.6-105 %Rec 2/19/2020 2:58:50 AM 50481

Lab ID: 2002595-006 **Collection Date:** 2/11/2020 1:21:00 PM

Client Sample ID: SW1 Matrix: SOIL

Result RL Qual Units DF Date Analyzed **Analyses Batch ID EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 9.4 mg/Kg 2/18/2020 8:00:37 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 2/18/2020 8:00:37 PM 50486 Surr: DNOP 90.8 55.1-146 %Rec 2/18/2020 8:00:37 PM 50486 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) 2/19/2020 3:22:10 AM ND 4.8 mg/Kg 1 50481 Surr: BFB 81.1 66.6-105 %Rec 2/19/2020 3:22:10 AM 50481

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#: **2002595**

19-Feb-20

Client:

WPX Energy

Project:

North Brushy Draw 35 1

Sample ID: MB-50486	SampT	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch	n ID: 50 4	186	F	RunNo: 60	6605					
Prep Date: 2/17/2020	Analysis D	ate: 2/	18/2020	S	SeqNo: 2	289790	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	11		10.00		111	55.1	146				

Sample ID: LCS-50486	SampT	ype: LC	s	Test	Code: El	PA Method	8015M/D: Diesel Range Organics				
Client ID: LCSS	Batch	ID: 50 4	486	RunNo: 66605							
Prep Date: 2/17/2020	Analysis D	ate: 2/	18/2020	SeqNo: 2289791 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	60	10	50.00	0	120	70	130				
Surr: DNOP	5.1		5.000		102	55.1	146				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002595

19-Feb-20

Client:

WPX Energy

Project:

North Brushy Draw 35 1

Sample ID: mb-50481

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: 50481

RunNo: 66629

Prep Date: 2/17/2020

Analysis Date: 2/18/2020

SeqNo: 2289517 Units: mg/Kg

Analyte

PQL Result ND

SPK value SPK Ref Val %REC

LowLimit

RPDLimit Qual

Gasoline Range Organics (GRO)

5.0

80.7

HighLimit

105

120

Qual

Surr: BFB

810

1000

66.6

Sample ID: Ics-50481

SampType: LCS

RunNo: 66629

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: 50481

SeqNo: 2289518

Units: mg/Kg

%RPD

Analyte Gasoline Range Organics (GRO)

Prep Date: 2/17/2020

Analysis Date: 2/18/2020

Result

23

920

%REC

0

LowLimit

HighLimit %RPD

RPDLimit

Surr: BFB

PQL

SPK value SPK Ref Val 5.0 25.00

1000

93.0 92.0

80 66.6

105

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

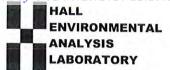
Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 4 of 4



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 CARLSE	3 Work Ord	der Numb	er: 200	2595			RcptN	o: 1	
Received By: Desiree Dominguez	2/14/2020 9	9:25:00 A	м		T	>			
Completed By: Erin Melendrez	2/14/2020	12:52:37	PM		I	us			
Reviewed By: JR 7/14/20									
Chain of Custody									
1. Is Chain of Custody sufficiently complet	e?		Yes	V	No		Not Present		
2. How was the sample delivered?		Cou	rier						
Log In									
Was an attempt made to cool the sample	les?		Yes	V	No		NA 🗆		
4. Were all samples received at a temperate	ture of >0° C to 6	.0°C	Yes	V	No		NA 🗆		
5. Sample(s) in proper container(s)?		Yes	V	No					
6. Sufficient sample volume for indicated te	est(s)?		Yes	~	No				
7. Are samples (except VOA and ONG) pro				~	No				
8. Was preservative added to bottles?			Yes		No	V	NA 🗌		
9. Received at least 1 vial with headspace	<1/4" for AQ VOA	?	Yes		No		NA 🗸		
10. Were any sample containers received be	roken?		Yes		No	V			
							# of preserved bottles checked		
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 			Yes	V	No		for pH:	or >42 unl	ess noted)
12. Are matrices correctly identified on Chair			Yes	V	No	П	Adjusted?	01/12 UIII	ess noted)
13. Is it clear what analyses were requested			Yes	V	No				
14. Were all holding times able to be met? (If no, notify customer for authorization.)				V	No		Checked by:	DAD	2/14/2
Special Handling (if applicable)									
15. Was client notified of all discrepancies w	vith this order?		Yes	П	No		NA 🗸		
Person Notified:		D. (-)	* ***		.,,,	-	3377 (2.1)		
By Whom:		Date: Via:	□ oMe		Dhana -	1	□ In Danier		
Regarding:		via.	eMa	(II	Phone _	Fax	☐ In Person		
Client Instructions:				-					
16. Additional remarks:								_	
17. Cooler Information Cooler No Temp °C Condition	Seal Intact Se	eal No	Seal Da	to	Signed	D.	and the second s		
1 1.0 Good	Journaut Se	Jul 110	Jeai Di		oigned	υу			

Page 52 of 52 Received by OCD: 3/23/2020 11:23:16 AM ANALYSIS LABORATORY HALL ENVIRONMENTAL Kerin Smith RSMithan from P. com Page 1 of 1 email report to Julie Linn: Jim Bhilcomp. com 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 www.hallenvironmental.com **Analysis Request** Total Coliform (Present/Absent) (AOV-ima2) 07S8 (AOV) 09S8 CI' E' BL' NO3' NO5' PO4' SO4 Tel. 505-345-3975 RCRA 8 Metals Remarks: Pleuse PAHs by 8310 or 8270SIMS EDB (Method 504.1) 8081 Pesticides/8082 PCB's TPH:8015D(GRO / DRO / MRO) X X BTEX / MTBE / TMB's (8021) 2/13/2008/10 SE: 6 OCINIE = 1.00 Sampler: Lena Smith, HR Julie Linn, HRL 900-8-Turn-Around Time: 50my 9AT -005 700 Cooler Temp(including CF): 0,9 +0.1 North Brushy Daw □ Rush Preservative Courter M Yes Type email or Fax#: トタルda, Lanm Soch @Wアメ enery Project Manager: Project Name: X Standard Type and # # of Coolers: 4 02. 14 Received by: Received by: Container B Project #: On Ice: Mailing Address: 5315 Butna Vista Dr ☐ Level 4 (Full Validation) Chain-of-Custody Record NM 88220 Lanimbach 885-13/3 3 Sample Name 下了工 FPS FP3 FPZ Energy □ Az Compliance Relinquished by: Relinquished by: □ Other ath: Lunda 505 XAZ Matrix Carlsbad, 2/11/2001:10/00/Soil 8:10 p. R 1991 2/11/2020 1:08 8. m3/1/1 | pzot/11/1 2/11/2011: 10 Pm 2/11/2021 . 18 Pm 2/11 Hoss 1. 21 Pm QA/QC Package: Time □ EDD (Type) Accreditation: Time: Time: Standard □ NELAC Phone #: 13/20 7/3/2 Date Date:

f 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