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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2006956859
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC.	OGRID: 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 32.0926458 Longitude -103.9492524
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: North Brushy Draw Federal 35 #002H	Site Type: Production Facility
Date Release Discovered: 02/28/2020	API# *(if applicable)*: 30-015-40006

Unit Letter	Section	Township	Range	County
A	35	25S	29E	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): 13	Volume Recovered (bbls): 0
	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:
An illegal dump location was found on February 28, 2020. Based on field screens, saturation depth was approximately 3 inches. A third-party contractor has been obtained to complete remediation activities.

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

Form C-141
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State of New Mexico
Oil Conservation Division

Incident ID	NRM2006956859
District RP	
Facility ID	
Application ID	

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?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☒ 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: Illegal dump

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: 03/09/2020

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

OCD Only

Received by: Ramona Marcus Date: 3/9/2020

Incident ID	NRM20206956859
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?	>100 (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	NRM20206956859
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: 11/12/2020

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

OCD Only

Received by: _____ Date: _____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NRM20206956859
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- [X] Detailed description of proposed remediation technique
- [X] Scaled sitemap with GPS coordinates showing delineation points
- [X] Estimated volume of material to be remediated
- [X] Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- [X] Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

- [ ] Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- [ ] Extents of contamination must be fully delineated.
- [ ] Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: 11/12/2020

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

OCD Only

Received by: _____ Date: _____

- [ ] Approved
- [ ] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: _____ Date: _____

November 12, 2020
Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210

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

Mr. Bratcher,

This report summarizes the remediation activities and proposed plan for remediation and closure of the illegal dump at the North Brushy Federal 35 #002H well pad (Site). The topographic map of the Site is provided as Figure 1. On February 28, 2020, WPX personnel reported a release that was suspected to be an illegal dumping of an estimated 13 barrels (bbls) of produced water.

Well Location: North Brushy Federal 35 #002H
API #:30-015-40006
NMOCD Reference #: NRM2006956859
Site Location Description: Unit Letter A, Section 35, Township 25S, Range 29E
Release Latitude/Longitude: N32.09632, W103.949269
Land Jurisdiction: Federal
Estimated Depth to Groundwater: >100 feet

NMOCD Site Characterization Standards
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). The Site is located within 300 feet of an OSE waterbody and is set within an approximated 100 Year flood plain. Based on the criteria outlined above, the closure criteria from the NMOCD Table 1 are as follows:

- 600 milligrams per kilogram (mg/kg) Chloride
- 50 mg/kg Benzene, Toluene, Ethylbenzene, and xylenes (BTEX)
- 10 mg/kg Benzene
- 100 mg/kg Total Petroleum Hydrocarbons (TPH)

Field Activities
On February 129, 2020, a consultant was onsite to confirm the release extent. The area of interest is located on Figure 2. A Sundry request was approved by the BLM on March 26, 2020 to begin excavation in the pasture. Excavation activities were started on April 7, 2020 and a sampling notification was sent to the NMOCD on April 6th, 2020 for sampling dates of April 8 and 9, 2020.

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. 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 chain of custody of Hall Laboratories. 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 current excavation of impacted soils confirmed that seven floor samples and six side wall samples were above the Standard threshold for chlorides. The sample locations are depicted in Figure 3 and 4. All sample results are summarized in Table 01 and complete lab results are provided in Attachment 01.

- Chloride analysis ranged from 180 mg/kg to 2,700 mg/kg
- BTEX analysis was below the Laboratory detectable limit
- Benzene analysis was below the Laboratory detectable limit
- TPH analysis ranged from below the Laboratory detectable limit to 170 mg/kg

Proposed Workplan

The current volume of contaminated soil excavated is equivalent to 160 cubic yards. WPX plans on excavating another 200 cubic yards to address the release off Site to total 360 cubic yards. The current excavation will be advanced an additional two feet and all side walls will be extended to address contamination greater than 600 mg/kg chlorides. All samples will be analyzed for Chlorides via Method EPA 300.0, TPH via Method 8015M, and BTEX via Method 8021B. All contaminated soil will be hauled to disposal at R-360 Red Bluff Facility, 5053 US Hwy 285, Orla, TX 79770.

Proposed Schedule

WPX plans to start this project as soon as this remediation plan is approved. Once started, the project, including excavation, sampling, backfill, and report will be completed by February 8, 2020. 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: Robert Hamlet, NMOCD
Victoria Venegas, NMOCD

Attachments:

Figure 1 Topography
Figure 2 Field Map- BLM Sundry Map
Figure 3 Excavation- Floor Samples
Figure 4 Excavation- Side Wall Samples
Table 01
Attachment 01 Analytical Results
Attachment 02 Sundry

Figures

WPXENERGY

Legend

Site

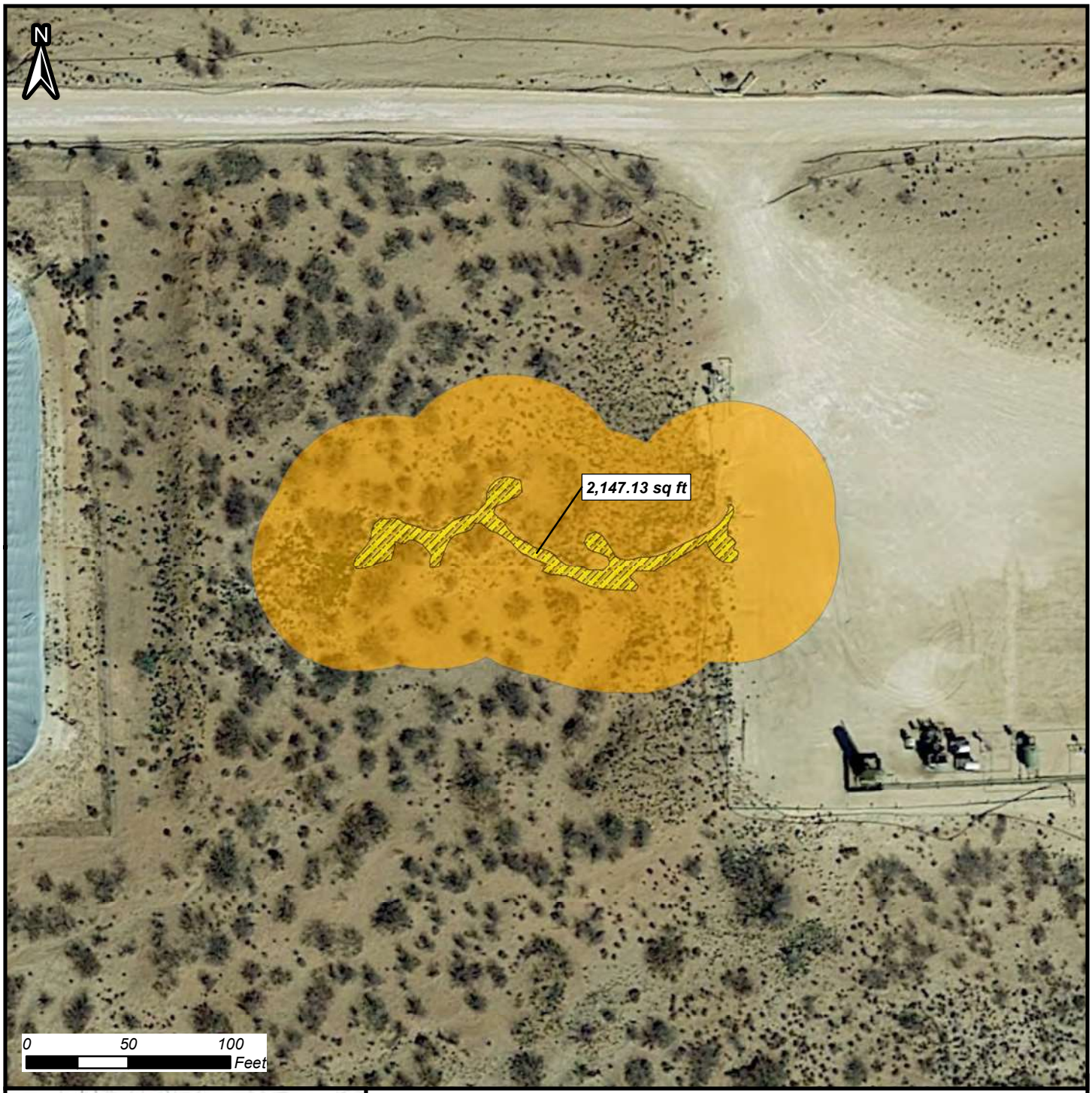
USGS National Hydrology Set

100=year Flood Plain

Figure 01
North Brushy Draw Federal 35 #002

Permian Basin, Eddy County, NM

Date: 11/12/2020



WPXENERGY

Figure 2: Impacted Area Map

North Brushy Draw Federal 35 #002H
February 2020 Spill

32.092674937, -103.949245424
Section 35, Township 25 South, Range 29 East

NOTES / COMMENTS:

The impacted area covers an extent of roughly 2,147.13 square feet.

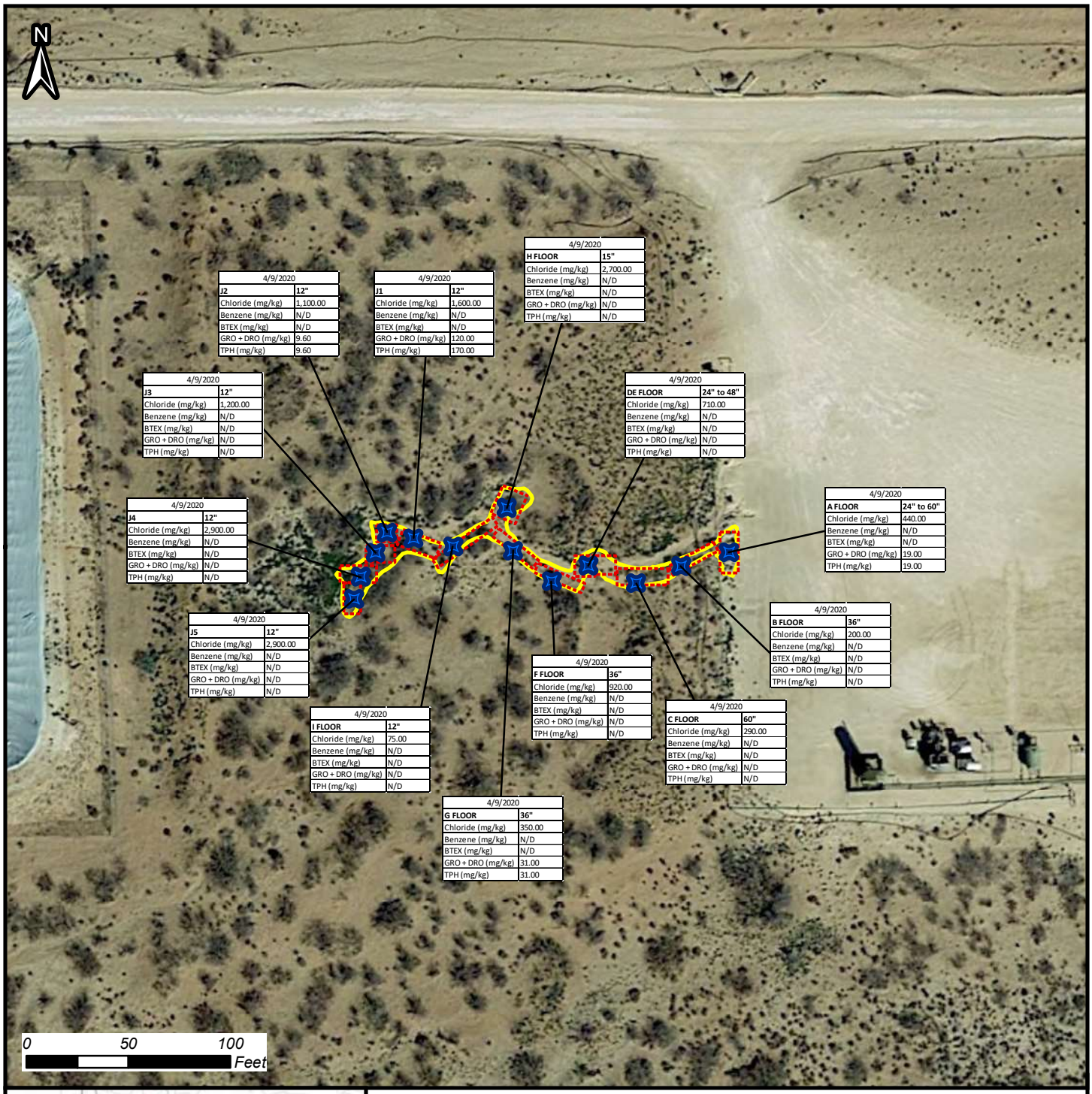
Mapped Features

- Impacted Area
- 50-ft Buffer

HRL COMPLIANCE SOLUTIONS

Author: A. Asay
Revision: 0
Date: 3/10/2020

T:\CLIENTS\WPX\2020\PERMIAN\North Brushy Draw Federal 35 #002H\Maps\North Brushy Draw Federal 35 #002H Impacted Area Map 031020.mxd



WPXENERGY

Figure 3: Footprint Confirmation Sample Location Map

North Brushy Draw Federal 35 #002H

February 2020 Spill

32.092674937, -103.949245424

Section 35, Township 25 South, Range 29 East

NOTES / COMMENTS:

The excavated area is approximately 2,374 square feet.

Mapped Features

- Sample Location (Submitted for Lab Analysis)
- Approximate Sampling Block
- Excavated Area

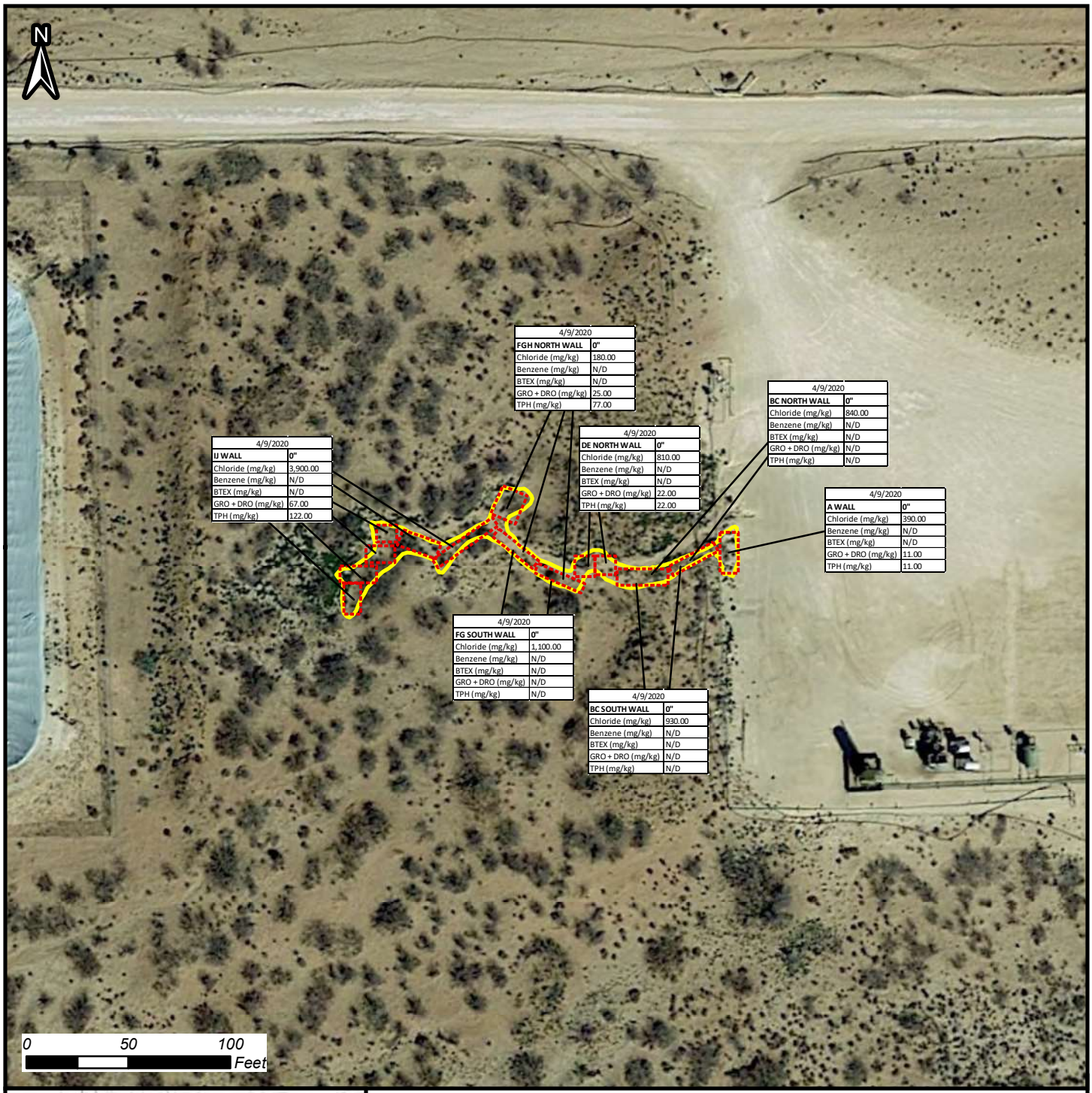
HRL COMPLIANCE SOLUTIONS

Author: A. Asay

Revision: 0

Date: 5/26/2020

T:\CLIENTS\WPX\2020\PERMIAN\North Brushy Draw Federal 35 #002H\Maps\North Brushy Draw Federal 35 #002H Confirmation Sample Map 052620.mxd



WPXENERGY

Figure 4: Sidewall Confirmation Sample Location Map

North Brushy Draw Federal 35 #002H

February 2020 Spill

32.092674937, -103.949245424

Section 35, Township 25 South, Range 29 East

NOTES / COMMENTS:

The excavated area is approximately 2,374 square feet.

Mapped Features

Approximate Sampling Block

Excavated Area

DISCLAIMER: This representation and the Geographic Information System (GIS) used to create it are designed as a source of reference and not intended to replace official records and/or legal surveys. HRL assumes no responsibility for any risks, dangers, or liabilities that may result from its use and makes no guarantees as to the quality or accuracy of the underlying data.

HRL COMPLIANCE SOLUTIONS

Author: A. Asay

Revision: 0

Date: 5/26/2020

T:\CLIENTS\WPX\2020\PERMIAN\North Brushy Draw Federal 35 #002H\Maps\North Brushy Draw Federal 35 #002H Sidewall Confirmation Sample Map 052620.mxd

Table(s)

HRL COMPLIANCE SOLUTIONS

Table 01
Soil Sample Results
WPX Energy Permian, LLC
North Brushy Draw 35-2
Eddy County, NM

Sample ID	Depth (feet)	Sample Date	Chloride	Benzene	BTEX	GRO + DRO	TPH
			Values are in milligrams per kilogram (mg/kg)				
NMOCD Closure Criteria (Groundwater 50 feet to 100 feet) *			10,000	10	50	1,000	2,500
A Floor	2-5	4/9/2020	440	ND	ND	19	19
B Floor	3	4/9/2020	200	ND	ND	ND	ND
C Floor	5	4/9/2020	290	ND	ND	ND	ND
DE Floor	2-4	4/9/2020	710	ND	ND	ND	ND
F Floor	3	4/9/2020	920	ND	ND	ND	ND
G Floor	3	4/9/2020	350	ND	ND	31	31
H Floor	1.25	4/9/2020	2,700	ND	ND	ND	ND
I Floor	1	4/9/2020	750	ND	ND	ND	ND
J1	1	4/9/2020	1,600	ND	ND	120	170
J2	1	4/9/2020	1,100	ND	ND	9.6	9.6
J3	1	4/9/2020	1,200	ND	ND	ND	ND
J4	1	4/9/2020	2,900	ND	ND	ND	ND
J5	1	4/9/2020	2,900	ND	ND	ND	ND
A Wall	0-5	4/9/2020	390	ND	ND	11	11
BC South Wall	0-3	4/9/2020	930	ND	ND	ND	ND
BC North Wall	0-2	4/9/2020	840	ND	ND	ND	ND
DE Walls	0-1	4/9/2020	810	ND	ND	22	22
FG Southeast Wall	0-1	4/9/2020	1,100	ND	ND	ND	ND
FGH North Wall	0-1	4/9/2020	180	ND	ND	25	77
I and J Wall	0-1	4/9/2020	3,900	ND	ND	67	122

HRL COMPLIANCE SOLUTIONS

Soil Sample Results
WPX Energy Permian, LLC
North Brushy Draw 35-2
Eddy County, NM

Sample ID	Depth (feet)	Sample Date	Chloride	Benzene	BTEX	GRO + DRO	TPH
			Values are in milligrams per kilogram (mg/kg)				
NMOCD Closure Criteria (Groundwater 50 feet to 100 feet) *			10,000	10	50	1,000	2,500
A Floor	2-5	4/9/2020	440	ND	ND	19	19

Notes:

NMOCD: New Mexico Oil Conservation Division

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

TPH: Total Petroleum Hydrocarbons

Results shaded in grey exceed closure criteria

* Closure Criteria specified in 19.15.17.13 NMAC

Attachment 01

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

April 24, 2020

Lynda Laumbauch

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

RE: North Brushy Draw 35 2 OrderNo.: 2004554

Dear Lynda Laumbauch:

Hall Environmental Analysis Laboratory received 20 sample(s) on 4/11/2020 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Client Sample ID: A Floor
Project: North Brushy Draw 35 2
Collection Date: 4/9/2020 10:41:00 AM
Lab ID: 2004554-001 **Matrix:** SOIL **Received Date:** 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	440	60		mg/Kg	20	4/14/2020 11:20:41 PM	51812
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/14/2020 9:33:35 PM	51748
Surr: BFB	96.3	70-130		%Rec	1	4/14/2020 9:33:35 PM	51748
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	19	9.6		mg/Kg	1	4/14/2020 6:41:52 PM	51754
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/14/2020 6:41:52 PM	51754
Surr: DNOP	91.6	55.1-146		%Rec	1	4/14/2020 6:41:52 PM	51754
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	4/14/2020 9:33:35 PM	51748
Toluene	ND	0.049		mg/Kg	1	4/14/2020 9:33:35 PM	51748
Ethylbenzene	ND	0.049		mg/Kg	1	4/14/2020 9:33:35 PM	51748
Xylenes, Total	ND	0.099		mg/Kg	1	4/14/2020 9:33:35 PM	51748
Surr: 1,2-Dichloroethane-d4	92.9	70-130		%Rec	1	4/14/2020 9:33:35 PM	51748
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	4/14/2020 9:33:35 PM	51748
Surr: Dibromofluoromethane	97.8	70-130		%Rec	1	4/14/2020 9:33:35 PM	51748
Surr: Toluene-d8	95.6	70-130		%Rec	1	4/14/2020 9:33:35 PM	51748

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 Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Client Sample ID: B Floor
Project: North Brushy Draw 35 2
Collection Date: 4/9/2020 9:19:00 AM
Lab ID: 2004554-002 **Matrix:** SOIL **Received Date:** 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	200	60		mg/Kg	20	4/14/2020 11:57:54 PM	51812
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/14/2020 10:02:47 PM	51748
Surr: BFB	96.5	70-130		%Rec	1	4/14/2020 10:02:47 PM	51748
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/14/2020 7:05:43 PM	51754
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/14/2020 7:05:43 PM	51754
Surr: DNOP	90.4	55.1-146		%Rec	1	4/14/2020 7:05:43 PM	51754
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.024		mg/Kg	1	4/14/2020 10:02:47 PM	51748
Toluene	ND	0.049		mg/Kg	1	4/14/2020 10:02:47 PM	51748
Ethylbenzene	ND	0.049		mg/Kg	1	4/14/2020 10:02:47 PM	51748
Xylenes, Total	ND	0.098		mg/Kg	1	4/14/2020 10:02:47 PM	51748
Surr: 1,2-Dichloroethane-d4	93.6	70-130		%Rec	1	4/14/2020 10:02:47 PM	51748
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	4/14/2020 10:02:47 PM	51748
Surr: Dibromofluoromethane	102	70-130		%Rec	1	4/14/2020 10:02:47 PM	51748
Surr: Toluene-d8	93.7	70-130		%Rec	1	4/14/2020 10:02:47 PM	51748

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 Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Client Sample ID: C Floors
Project: North Brushy Draw 35 2
Collection Date: 4/9/2020 9:23:00 AM
Lab ID: 2004554-003
Matrix: SOIL
Received Date: 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	290	60		mg/Kg	20	4/15/2020 12:10:19 AM	51812
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/14/2020 10:31:53 PM	51748
Surr: BFB	100	70-130		%Rec	1	4/14/2020 10:31:53 PM	51748
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	4/14/2020 7:29:29 PM	51754
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/14/2020 7:29:29 PM	51754
Surr: DNOP	92.5	55.1-146		%Rec	1	4/14/2020 7:29:29 PM	51754
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	4/14/2020 10:31:53 PM	51748
Toluene	ND	0.050		mg/Kg	1	4/14/2020 10:31:53 PM	51748
Ethylbenzene	ND	0.050		mg/Kg	1	4/14/2020 10:31:53 PM	51748
Xylenes, Total	ND	0.10		mg/Kg	1	4/14/2020 10:31:53 PM	51748
Surr: 1,2-Dichloroethane-d4	93.6	70-130		%Rec	1	4/14/2020 10:31:53 PM	51748
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	4/14/2020 10:31:53 PM	51748
Surr: Dibromofluoromethane	101	70-130		%Rec	1	4/14/2020 10:31:53 PM	51748
Surr: Toluene-d8	96.4	70-130		%Rec	1	4/14/2020 10:31:53 PM	51748

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 Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Client Sample ID: DE Floors
Project: North Brushy Draw 35 2
Collection Date: 4/9/2020 9:35:00 AM
Lab ID: 2004554-004
Matrix: SOIL
Received Date: 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	710	60		mg/Kg	20	4/15/2020 12:22:43 AM	51812
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/14/2020 11:00:54 PM	51748
Surr: BFB	98.2	70-130		%Rec	1	4/14/2020 11:00:54 PM	51748
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/14/2020 7:53:11 PM	51754
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/14/2020 7:53:11 PM	51754
Surr: DNOP	89.9	55.1-146		%Rec	1	4/14/2020 7:53:11 PM	51754
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	4/14/2020 11:00:54 PM	51748
Toluene	ND	0.050		mg/Kg	1	4/14/2020 11:00:54 PM	51748
Ethylbenzene	ND	0.050		mg/Kg	1	4/14/2020 11:00:54 PM	51748
Xylenes, Total	ND	0.099		mg/Kg	1	4/14/2020 11:00:54 PM	51748
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%Rec	1	4/14/2020 11:00:54 PM	51748
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	4/14/2020 11:00:54 PM	51748
Surr: Dibromofluoromethane	100	70-130		%Rec	1	4/14/2020 11:00:54 PM	51748
Surr: Toluene-d8	95.5	70-130		%Rec	1	4/14/2020 11:00:54 PM	51748

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 Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Client Sample ID: F Floor
Project: North Brushy Draw 35 2
Collection Date: 4/9/2020 9:51:00 AM
Lab ID: 2004554-005 **Matrix:** SOIL **Received Date:** 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	920	60		mg/Kg	20	4/15/2020 12:35:08 AM	51812
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/14/2020 11:29:57 PM	51748
Surr: BFB	100	70-130		%Rec	1	4/14/2020 11:29:57 PM	51748
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/14/2020 8:16:49 PM	51754
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/14/2020 8:16:49 PM	51754
Surr: DNOP	91.4	55.1-146		%Rec	1	4/14/2020 8:16:49 PM	51754
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	4/14/2020 11:29:57 PM	51748
Toluene	ND	0.050		mg/Kg	1	4/14/2020 11:29:57 PM	51748
Ethylbenzene	ND	0.050		mg/Kg	1	4/14/2020 11:29:57 PM	51748
Xylenes, Total	ND	0.099		mg/Kg	1	4/14/2020 11:29:57 PM	51748
Surr: 1,2-Dichloroethane-d4	94.2	70-130		%Rec	1	4/14/2020 11:29:57 PM	51748
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	4/14/2020 11:29:57 PM	51748
Surr: Dibromofluoromethane	102	70-130		%Rec	1	4/14/2020 11:29:57 PM	51748
Surr: Toluene-d8	97.5	70-130		%Rec	1	4/14/2020 11:29:57 PM	51748

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 Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Client Sample ID: G Floor
Project: North Brushy Draw 35 2
Collection Date: 4/9/2020 9:55:00 AM
Lab ID: 2004554-006 **Matrix:** SOIL **Received Date:** 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	350	61		mg/Kg	20	4/15/2020 12:47:33 AM	51812
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/14/2020 11:58:59 PM	51748
Surr: BFB	96.6	70-130		%Rec	1	4/14/2020 11:58:59 PM	51748
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	31	8.8		mg/Kg	1	4/14/2020 8:40:25 PM	51754
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	4/14/2020 8:40:25 PM	51754
Surr: DNOP	98.4	55.1-146		%Rec	1	4/14/2020 8:40:25 PM	51754
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	4/14/2020 11:58:59 PM	51748
Toluene	ND	0.050		mg/Kg	1	4/14/2020 11:58:59 PM	51748
Ethylbenzene	ND	0.050		mg/Kg	1	4/14/2020 11:58:59 PM	51748
Xylenes, Total	ND	0.099		mg/Kg	1	4/14/2020 11:58:59 PM	51748
Surr: 1,2-Dichloroethane-d4	94.6	70-130		%Rec	1	4/14/2020 11:58:59 PM	51748
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	4/14/2020 11:58:59 PM	51748
Surr: Dibromofluoromethane	99.9	70-130		%Rec	1	4/14/2020 11:58:59 PM	51748
Surr: Toluene-d8	97.6	70-130		%Rec	1	4/14/2020 11:58:59 PM	51748

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 Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Client Sample ID: H Floor
Project: North Brushy Draw 35 2
Collection Date: 4/9/2020 9:59:00 AM
Lab ID: 2004554-007
Matrix: SOIL
Received Date: 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	2700	150		mg/Kg	50	4/15/2020 5:31:47 PM	51812
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/15/2020 12:28:00 AM	51748
Surr: BFB	97.8	70-130		%Rec	1	4/15/2020 12:28:00 AM	51748
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/15/2020 3:36:14 PM	51754
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/15/2020 3:36:14 PM	51754
Surr: DNOP	57.3	55.1-146		%Rec	1	4/15/2020 3:36:14 PM	51754
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	4/15/2020 12:28:00 AM	51748
Toluene	ND	0.050		mg/Kg	1	4/15/2020 12:28:00 AM	51748
Ethylbenzene	ND	0.050		mg/Kg	1	4/15/2020 12:28:00 AM	51748
Xylenes, Total	ND	0.10		mg/Kg	1	4/15/2020 12:28:00 AM	51748
Surr: 1,2-Dichloroethane-d4	95.3	70-130		%Rec	1	4/15/2020 12:28:00 AM	51748
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	4/15/2020 12:28:00 AM	51748
Surr: Dibromofluoromethane	105	70-130		%Rec	1	4/15/2020 12:28:00 AM	51748
Surr: Toluene-d8	98.2	70-130		%Rec	1	4/15/2020 12:28:00 AM	51748

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 Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Client Sample ID: I Floor
Project: North Brushy Draw 35 2
Collection Date: 4/9/2020 11:28:00 AM
Lab ID: 2004554-008 **Matrix:** SOIL **Received Date:** 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	750	60		mg/Kg	20	4/15/2020 3:19:02 AM	51812
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst:	**JMR**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/15/2020 2:52:27 AM	51748
Surr: BFB	98.1	70-130		%Rec	1	4/15/2020 2:52:27 AM	51748
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/14/2020 9:27:30 PM	51754
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/14/2020 9:27:30 PM	51754
Surr: DNOP	97.7	55.1-146		%Rec	1	4/14/2020 9:27:30 PM	51754
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	**JMR**
Benzene	ND	0.025		mg/Kg	1	4/15/2020 2:52:27 AM	51748
Toluene	ND	0.050		mg/Kg	1	4/15/2020 2:52:27 AM	51748
Ethylbenzene	ND	0.050		mg/Kg	1	4/15/2020 2:52:27 AM	51748
Xylenes, Total	ND	0.10		mg/Kg	1	4/15/2020 2:52:27 AM	51748
Surr: 1,2-Dichloroethane-d4	93.3	70-130		%Rec	1	4/15/2020 2:52:27 AM	51748
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	4/15/2020 2:52:27 AM	51748
Surr: Dibromofluoromethane	103	70-130		%Rec	1	4/15/2020 2:52:27 AM	51748
Surr: Toluene-d8	101	70-130		%Rec	1	4/15/2020 2:52:27 AM	51748

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 Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy **Client Sample ID:** J1
Project: North Brushy Draw 35 2 **Collection Date:** 4/9/2020 1:17:00 PM
Lab ID: 2004554-009 **Matrix:** SOIL **Received Date:** 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	1600	60		mg/Kg	20	4/15/2020 3:31:27 AM	51812
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/15/2020 3:21:14 AM	51748
Surr: BFB	95.4	70-130		%Rec	1	4/15/2020 3:21:14 AM	51748
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	120	9.4		mg/Kg	1	4/14/2020 9:50:58 PM	51754
Motor Oil Range Organics (MRO)	50	47		mg/Kg	1	4/14/2020 9:50:58 PM	51754
Surr: DNOP	101	55.1-146		%Rec	1	4/14/2020 9:50:58 PM	51754
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	4/15/2020 3:21:14 AM	51748
Toluene	ND	0.049		mg/Kg	1	4/15/2020 3:21:14 AM	51748
Ethylbenzene	ND	0.049		mg/Kg	1	4/15/2020 3:21:14 AM	51748
Xylenes, Total	ND	0.098		mg/Kg	1	4/15/2020 3:21:14 AM	51748
Surr: 1,2-Dichloroethane-d4	91.4	70-130		%Rec	1	4/15/2020 3:21:14 AM	51748
Surr: 4-Bromofluorobenzene	82.4	70-130		%Rec	1	4/15/2020 3:21:14 AM	51748
Surr: Dibromofluoromethane	101	70-130		%Rec	1	4/15/2020 3:21:14 AM	51748
Surr: Toluene-d8	97.2	70-130		%Rec	1	4/15/2020 3:21:14 AM	51748

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 Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy **Client Sample ID:** J2
Project: North Brushy Draw 35 2 **Collection Date:** 4/9/2020 1:19:00 PM
Lab ID: 2004554-010 **Matrix:** SOIL **Received Date:** 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	1100	60		mg/Kg	20	4/15/2020 3:43:52 AM	51812
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/15/2020 3:49:59 AM	51748
Surr: BFB	97.9	70-130		%Rec	1	4/15/2020 3:49:59 AM	51748
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	9.6	8.4		mg/Kg	1	4/14/2020 10:14:24 PM	51754
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	4/14/2020 10:14:24 PM	51754
Surr: DNOP	106	55.1-146		%Rec	1	4/14/2020 10:14:24 PM	51754
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	4/15/2020 3:49:59 AM	51748
Toluene	ND	0.049		mg/Kg	1	4/15/2020 3:49:59 AM	51748
Ethylbenzene	ND	0.049		mg/Kg	1	4/15/2020 3:49:59 AM	51748
Xylenes, Total	ND	0.099		mg/Kg	1	4/15/2020 3:49:59 AM	51748
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%Rec	1	4/15/2020 3:49:59 AM	51748
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	4/15/2020 3:49:59 AM	51748
Surr: Dibromofluoromethane	102	70-130		%Rec	1	4/15/2020 3:49:59 AM	51748
Surr: Toluene-d8	100	70-130		%Rec	1	4/15/2020 3:49:59 AM	51748

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 Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Client Sample ID: J3
Project: North Brushy Draw 35 2
Collection Date: 4/9/2020 1:21:00 PM
Lab ID: 2004554-011
Matrix: SOIL
Received Date: 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	1200	60		mg/Kg	20	4/15/2020 3:56:16 AM	51812
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/15/2020 4:18:43 AM	51748
Surr: BFB	100	70-130		%Rec	1	4/15/2020 4:18:43 AM	51748
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	4/14/2020 10:37:49 PM	51754
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	4/14/2020 10:37:49 PM	51754
Surr: DNOP	95.3	55.1-146		%Rec	1	4/14/2020 10:37:49 PM	51754
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	4/15/2020 4:18:43 AM	51748
Toluene	ND	0.050		mg/Kg	1	4/15/2020 4:18:43 AM	51748
Ethylbenzene	ND	0.050		mg/Kg	1	4/15/2020 4:18:43 AM	51748
Xylenes, Total	ND	0.10		mg/Kg	1	4/15/2020 4:18:43 AM	51748
Surr: 1,2-Dichloroethane-d4	93.2	70-130		%Rec	1	4/15/2020 4:18:43 AM	51748
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	4/15/2020 4:18:43 AM	51748
Surr: Dibromofluoromethane	99.0	70-130		%Rec	1	4/15/2020 4:18:43 AM	51748
Surr: Toluene-d8	99.8	70-130		%Rec	1	4/15/2020 4:18:43 AM	51748

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 Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy **Client Sample ID:** J4
Project: North Brushy Draw 35 2 **Collection Date:** 4/9/2020 1:23:00 PM
Lab ID: 2004554-012 **Matrix:** SOIL **Received Date:** 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	2900	150		mg/Kg	50	4/15/2020 5:44:12 PM	51812
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/15/2020 4:47:26 AM	51748
Surr: BFB	97.6	70-130		%Rec	1	4/15/2020 4:47:26 AM	51748
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/14/2020 11:01:12 PM	51754
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/14/2020 11:01:12 PM	51754
Surr: DNOP	94.3	55.1-146		%Rec	1	4/14/2020 11:01:12 PM	51754
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	4/15/2020 4:47:26 AM	51748
Toluene	ND	0.050		mg/Kg	1	4/15/2020 4:47:26 AM	51748
Ethylbenzene	ND	0.050		mg/Kg	1	4/15/2020 4:47:26 AM	51748
Xylenes, Total	ND	0.10		mg/Kg	1	4/15/2020 4:47:26 AM	51748
Surr: 1,2-Dichloroethane-d4	93.1	70-130		%Rec	1	4/15/2020 4:47:26 AM	51748
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	1	4/15/2020 4:47:26 AM	51748
Surr: Dibromofluoromethane	105	70-130		%Rec	1	4/15/2020 4:47:26 AM	51748
Surr: Toluene-d8	98.6	70-130		%Rec	1	4/15/2020 4:47:26 AM	51748

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 Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Client Sample ID: J5
Project: North Brushy Draw 35 2
Collection Date: 4/9/2020 1:30:00 PM
Lab ID: 2004554-013
Matrix: SOIL
Received Date: 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	2900	150		mg/Kg	50	4/15/2020 5:56:36 PM	51812
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/15/2020 5:16:07 AM	51748
Surr: BFB	100	70-130		%Rec	1	4/15/2020 5:16:07 AM	51748
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/14/2020 11:24:35 PM	51754
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/14/2020 11:24:35 PM	51754
Surr: DNOP	98.6	55.1-146		%Rec	1	4/14/2020 11:24:35 PM	51754
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	4/15/2020 5:16:07 AM	51748
Toluene	ND	0.050		mg/Kg	1	4/15/2020 5:16:07 AM	51748
Ethylbenzene	ND	0.050		mg/Kg	1	4/15/2020 5:16:07 AM	51748
Xylenes, Total	ND	0.099		mg/Kg	1	4/15/2020 5:16:07 AM	51748
Surr: 1,2-Dichloroethane-d4	90.0	70-130		%Rec	1	4/15/2020 5:16:07 AM	51748
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	4/15/2020 5:16:07 AM	51748
Surr: Dibromofluoromethane	100	70-130		%Rec	1	4/15/2020 5:16:07 AM	51748
Surr: Toluene-d8	101	70-130		%Rec	1	4/15/2020 5:16:07 AM	51748

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 Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Client Sample ID: A Walls
Project: North Brushy Draw 35 2
Collection Date: 4/9/2020 10:42:00 AM
Lab ID: 2004554-014 **Matrix:** SOIL **Received Date:** 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	390	60		mg/Kg	20	4/15/2020 4:33:28 AM	51812
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/15/2020 5:44:52 AM	51748
Surr: BFB	99.1	70-130		%Rec	1	4/15/2020 5:44:52 AM	51748
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	11	9.3		mg/Kg	1	4/14/2020 11:47:58 PM	51754
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/14/2020 11:47:58 PM	51754
Surr: DNOP	96.0	55.1-146		%Rec	1	4/14/2020 11:47:58 PM	51754
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	4/15/2020 5:44:52 AM	51748
Toluene	ND	0.050		mg/Kg	1	4/15/2020 5:44:52 AM	51748
Ethylbenzene	ND	0.050		mg/Kg	1	4/15/2020 5:44:52 AM	51748
Xylenes, Total	ND	0.10		mg/Kg	1	4/15/2020 5:44:52 AM	51748
Surr: 1,2-Dichloroethane-d4	93.2	70-130		%Rec	1	4/15/2020 5:44:52 AM	51748
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	4/15/2020 5:44:52 AM	51748
Surr: Dibromofluoromethane	103	70-130		%Rec	1	4/15/2020 5:44:52 AM	51748
Surr: Toluene-d8	101	70-130		%Rec	1	4/15/2020 5:44:52 AM	51748

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 Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Client Sample ID: BC South Wall
Project: North Brushy Draw 35 2
Collection Date: 4/9/2020 10:48:00 AM
Lab ID: 2004554-015
Matrix: SOIL
Received Date: 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	930	61		mg/Kg	20	4/15/2020 4:45:53 AM	51812
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/15/2020 6:13:37 AM	51748
Surr: BFB	98.6	70-130		%Rec	1	4/15/2020 6:13:37 AM	51748
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/15/2020 12:11:19 AM	51754
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/15/2020 12:11:19 AM	51754
Surr: DNOP	95.2	55.1-146		%Rec	1	4/15/2020 12:11:19 AM	51754
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	4/15/2020 6:13:37 AM	51748
Toluene	ND	0.050		mg/Kg	1	4/15/2020 6:13:37 AM	51748
Ethylbenzene	ND	0.050		mg/Kg	1	4/15/2020 6:13:37 AM	51748
Xylenes, Total	ND	0.099		mg/Kg	1	4/15/2020 6:13:37 AM	51748
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%Rec	1	4/15/2020 6:13:37 AM	51748
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	4/15/2020 6:13:37 AM	51748
Surr: Dibromofluoromethane	101	70-130		%Rec	1	4/15/2020 6:13:37 AM	51748
Surr: Toluene-d8	102	70-130		%Rec	1	4/15/2020 6:13:37 AM	51748

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 Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Client Sample ID: BC North Wall
Project: North Brushy Draw 35 2
Collection Date: 4/9/2020 10:49:00 AM
Lab ID: 2004554-016 **Matrix:** SOIL **Received Date:** 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	840	61		mg/Kg	20	4/15/2020 4:58:18 AM	51812
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/15/2020 6:42:22 AM	51748
Surr: BFB	99.3	70-130		%Rec	1	4/15/2020 6:42:22 AM	51748
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/14/2020 8:45:47 PM	51765
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/14/2020 8:45:47 PM	51765
Surr: DNOP	95.9	55.1-146		%Rec	1	4/14/2020 8:45:47 PM	51765
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	0.025		mg/Kg	1	4/15/2020 6:42:22 AM	51748
Toluene	ND	0.049		mg/Kg	1	4/15/2020 6:42:22 AM	51748
Ethylbenzene	ND	0.049		mg/Kg	1	4/15/2020 6:42:22 AM	51748
Xylenes, Total	ND	0.099		mg/Kg	1	4/15/2020 6:42:22 AM	51748
Surr: 1,2-Dichloroethane-d4	93.2	70-130		%Rec	1	4/15/2020 6:42:22 AM	51748
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	4/15/2020 6:42:22 AM	51748
Surr: Dibromofluoromethane	101	70-130		%Rec	1	4/15/2020 6:42:22 AM	51748
Surr: Toluene-d8	101	70-130		%Rec	1	4/15/2020 6:42:22 AM	51748

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 Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Client Sample ID: DE Walls
Project: North Brushy Draw 35 2
Collection Date: 4/9/2020 11:01:00 AM
Lab ID: 2004554-017
Matrix: SOIL
Received Date: 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	810	61		mg/Kg	20	4/15/2020 11:44:19 AM	51821
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	22	9.6		mg/Kg	1	4/14/2020 9:57:59 PM	51765
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/14/2020 9:57:59 PM	51765
Surr: DNOP	95.4	55.1-146		%Rec	1	4/14/2020 9:57:59 PM	51765
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/15/2020 3:47:47 PM	51750
Surr: BFB	99.5	66.6-105		%Rec	1	4/15/2020 3:47:47 PM	51750
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	4/15/2020 3:47:47 PM	51750
Toluene	ND	0.050		mg/Kg	1	4/15/2020 3:47:47 PM	51750
Ethylbenzene	ND	0.050		mg/Kg	1	4/15/2020 3:47:47 PM	51750
Xylenes, Total	ND	0.099		mg/Kg	1	4/15/2020 3:47:47 PM	51750
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	4/15/2020 3:47:47 PM	51750

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 Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Client Sample ID: FG Southeast Walls
Project: North Brushy Draw 35 2
Collection Date: 4/9/2020 11:04:00 AM
Lab ID: 2004554-018 **Matrix:** SOIL **Received Date:** 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1100	60		mg/Kg	20	4/15/2020 12:46:21 PM	51821
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	4/14/2020 10:21:56 PM	51765
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	4/14/2020 10:21:56 PM	51765
Surr: DNOP	95.6	55.1-146		%Rec	1	4/14/2020 10:21:56 PM	51765
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/15/2020 4:58:12 PM	51750
Surr: BFB	95.3	66.6-105		%Rec	1	4/15/2020 4:58:12 PM	51750
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	4/15/2020 4:58:12 PM	51750
Toluene	ND	0.047		mg/Kg	1	4/15/2020 4:58:12 PM	51750
Ethylbenzene	ND	0.047		mg/Kg	1	4/15/2020 4:58:12 PM	51750
Xylenes, Total	ND	0.094		mg/Kg	1	4/15/2020 4:58:12 PM	51750
Surr: 4-Bromofluorobenzene	96.2	80-120		%Rec	1	4/15/2020 4:58:12 PM	51750

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 Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Client Sample ID: FGH North Walls
Project: North Brushy Draw 35 2
Collection Date: 4/9/2020 11:07:00 AM
Lab ID: 2004554-019 **Matrix:** SOIL **Received Date:** 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	180	60		mg/Kg	20	4/15/2020 12:58:46 PM	51821
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	25	9.8		mg/Kg	1	4/14/2020 10:45:48 PM	51765
Motor Oil Range Organics (MRO)	52	49		mg/Kg	1	4/14/2020 10:45:48 PM	51765
Surr: DNOP	97.2	55.1-146		%Rec	1	4/14/2020 10:45:48 PM	51765
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/15/2020 6:09:22 PM	51750
Surr: BFB	98.4	66.6-105		%Rec	1	4/15/2020 6:09:22 PM	51750
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	4/15/2020 6:09:22 PM	51750
Toluene	ND	0.048		mg/Kg	1	4/15/2020 6:09:22 PM	51750
Ethylbenzene	ND	0.048		mg/Kg	1	4/15/2020 6:09:22 PM	51750
Xylenes, Total	ND	0.097		mg/Kg	1	4/15/2020 6:09:22 PM	51750
Surr: 4-Bromofluorobenzene	99.6	80-120		%Rec	1	4/15/2020 6:09:22 PM	51750

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

Analytical Report
Lab Order **2004554**
Date Reported: **4/24/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WPX Energy
Client Sample ID: I and J Wall
Project: North Brushy Draw 35 2
Collection Date: 4/9/2020 1:32:00 PM
Lab ID: 2004554-020 **Matrix:** SOIL **Received Date:** 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	3900	150		mg/Kg	50	4/16/2020 2:29:25 PM	51821
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	67	10		mg/Kg	1	4/14/2020 11:09:46 PM	51765
Motor Oil Range Organics (MRO)	55	51		mg/Kg	1	4/14/2020 11:09:46 PM	51765
Surr: DNOP	104	55.1-146		%Rec	1	4/14/2020 11:09:46 PM	51765
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/15/2020 6:32:56 PM	51750
Surr: BFB	96.6	66.6-105		%Rec	1	4/15/2020 6:32:56 PM	51750
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	4/15/2020 6:32:56 PM	51750
Toluene	ND	0.049		mg/Kg	1	4/15/2020 6:32:56 PM	51750
Ethylbenzene	ND	0.049		mg/Kg	1	4/15/2020 6:32:56 PM	51750
Xylenes, Total	ND	0.097		mg/Kg	1	4/15/2020 6:32:56 PM	51750
Surr: 4-Bromofluorobenzene	97.5	80-120		%Rec	1	4/15/2020 6:32:56 PM	51750

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 Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2004554**
24-Apr-20

Client: WPX Energy
Project: North Brushy Draw 35 2

Sample ID: **MB-51812**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **51812**	RunNo: **68125**							
Prep Date: **4/14/2020**	Analysis Date: **4/15/2020**	SeqNo: **2355103**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-51812**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **51812**	RunNo: **68125**							
Prep Date: **4/14/2020**	Analysis Date: **4/15/2020**	SeqNo: **2355104**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

Sample ID: **MB-51812**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **51812**	RunNo: **68129**							
Prep Date: **4/14/2020**	Analysis Date: **4/14/2020**	SeqNo: **2355288**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-51812**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **51812**	RunNo: **68129**							
Prep Date: **4/14/2020**	Analysis Date: **4/14/2020**	SeqNo: **2355289**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

Sample ID: **MB-51821**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **51821**	RunNo: **68136**							
Prep Date: **4/15/2020**	Analysis Date: **4/15/2020**	SeqNo: **2356599**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-51821**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **51821**	RunNo: **68136**							
Prep Date: **4/15/2020**	Analysis Date: **4/15/2020**	SeqNo: **2356600**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.4	90	110			

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2004554**
24-Apr-20

Client: WPX Energy
Project: North Brushy Draw 35 2

Sample ID: **2004554-016AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BC North Wall** Batch ID: **51765** RunNo: **68101**
Prep Date: **4/13/2020** Analysis Date: **4/14/2020** SeqNo: **2355592** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.7	48.50	0	96.6	47.4	136			
Surr: DNOP	4.1		4.850		85.5	55.1	146			

Sample ID: **2004554-016AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BC North Wall** Batch ID: **51765** RunNo: **68101**
Prep Date: **4/13/2020** Analysis Date: **4/14/2020** SeqNo: **2355593** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.3	46.69	0	96.7	47.4	136	3.71	43.4	
Surr: DNOP	4.0		4.669		86.1	55.1	146	0	0	

Sample ID: **LCS-51765** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **51765** RunNo: **68101**
Prep Date: **4/13/2020** Analysis Date: **4/14/2020** SeqNo: **2355611** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.7	70	130			
Surr: DNOP	3.9		5.000		78.4	55.1	146			

Sample ID: **MB-51765** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **51765** RunNo: **68101**
Prep Date: **4/13/2020** Analysis Date: **4/14/2020** SeqNo: **2355612** 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	5.8		10.00		58.5	55.1	146			

Sample ID: **MB-51754** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **51754** RunNo: **68099**
Prep Date: **4/13/2020** Analysis Date: **4/14/2020** SeqNo: **2355633** 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	6.9		10.00		68.7	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2004554**

24-Apr-20

Client: WPX Energy

Project: North Brushy Draw 35 2

Sample ID: **LCS-51754** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **51754** RunNo: **68099**

Prep Date: **4/13/2020** Analysis Date: **4/14/2020** SeqNo: **2355634** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.4	70	130			
Surr: DNOP	4.4		5.000		88.3	55.1	146			

Sample ID: **MB-51849** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **51849** RunNo: **68131**

Prep Date: **4/16/2020** Analysis Date: **4/16/2020** SeqNo: **2356515** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.7		10.00		86.8	55.1	146			

Sample ID: **LCS-51849** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **51849** RunNo: **68131**

Prep Date: **4/16/2020** Analysis Date: **4/16/2020** SeqNo: **2356517** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.7	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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2004554**
24-Apr-20

Client: WPX Energy
Project: North Brushy Draw 35 2

Sample ID: **mb-51750** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **51750** RunNo: **68135**
Prep Date: **4/13/2020** Analysis Date: **4/15/2020** SeqNo: **2356056** 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	960		1000		96.3	66.6	105			

Sample ID: **lcs-51750** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **51750** RunNo: **68135**
Prep Date: **4/13/2020** Analysis Date: **4/15/2020** SeqNo: **2356057** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.2	80	120			
Surr: BFB	1100		1000		110	66.6	105			S

Sample ID: **2004554-018ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **FG Southeast Walls** Batch ID: **51750** RunNo: **68135**
Prep Date: **4/13/2020** Analysis Date: **4/15/2020** SeqNo: **2356060** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.65	0	87.8	69.1	142			
Surr: BFB	1000		986.2		105	66.6	105			S

Sample ID: **2004554-018amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **FG Southeast Walls** Batch ID: **51750** RunNo: **68135**
Prep Date: **4/13/2020** Analysis Date: **4/15/2020** SeqNo: **2356061** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.49	0	90.4	69.1	142	2.14	20	
Surr: BFB	1000		979.4		106	66.6	105	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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2004554**
24-Apr-20

Client: WPX Energy
Project: North Brushy Draw 35 2

Sample ID: **mb-51750** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **51750** RunNo: **68135**
Prep Date: **4/13/2020** Analysis Date: **4/15/2020** SeqNo: **2356106** 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	0.97		1.000		97.5	80	120			

Sample ID: **LCS-51750** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **51750** RunNo: **68135**
Prep Date: **4/13/2020** Analysis Date: **4/15/2020** SeqNo: **2356107** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.1	80	120			
Toluene	0.90	0.050	1.000	0	90.0	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID: **2004554-017ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **DE Walls** Batch ID: **51750** RunNo: **68135**
Prep Date: **4/13/2020** Analysis Date: **4/15/2020** SeqNo: **2356109** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.024	0.9515	0	89.5	78.5	119			
Toluene	0.88	0.048	0.9515	0	92.2	75.7	123			
Ethylbenzene	0.90	0.048	0.9515	0	94.6	74.3	126			
Xylenes, Total	2.7	0.095	2.854	0	96.2	72.9	130			
Surr: 4-Bromofluorobenzene	0.98		0.9515		103	80	120			

Sample ID: **2004554-017amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **DE Walls** Batch ID: **51750** RunNo: **68135**
Prep Date: **4/13/2020** Analysis Date: **4/15/2020** SeqNo: **2356110** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	0.9852	0	90.5	78.5	119	4.58	20	
Toluene	0.92	0.049	0.9852	0	93.5	75.7	123	4.88	20	
Ethylbenzene	0.94	0.049	0.9852	0	95.3	74.3	126	4.17	20	
Xylenes, Total	2.8	0.099	2.956	0	95.9	72.9	130	3.14	20	
Surr: 4-Bromofluorobenzene	0.98		0.9852		99.8	80	120	0	0	

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2004554**
24-Apr-20

Client: WPX Energy
Project: North Brushy Draw 35 2

Sample ID: **lcs-51748** SampType: **LCS** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS** Batch ID: **51748** RunNo: **68134**
Prep Date: **4/12/2020** Analysis Date: **4/14/2020** SeqNo: **2355378** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.4	70	130			
Toluene	1.0	0.050	1.000	0	103	70	130			
Ethylbenzene	1.0	0.050	1.000	0	103	70	130			
Xylenes, Total	3.0	0.10	3.000	0	98.7	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.1	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.9	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		98.9	70	130			
Surr: Toluene-d8	0.48		0.5000		96.4	70	130			

Sample ID: **mb-51748** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS** Batch ID: **51748** RunNo: **68134**
Prep Date: **4/12/2020** Analysis Date: **4/14/2020** SeqNo: **2355379** 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: 1,2-Dichloroethane-d4	0.47		0.5000		94.1	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.9	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		100	70	130			
Surr: Toluene-d8	0.49		0.5000		97.8	70	130			

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2004554**
24-Apr-20

Client: WPX Energy
Project: North Brushy Draw 35 2

Sample ID: **lcs-51748**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **51748**	RunNo: **68134**
Prep Date: **4/12/2020**	Analysis Date: **4/14/2020**	SeqNo: **2355428** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	5.0	25.00	0	77.6	70	130			
Surr: BFB	480		500.0		96.3	70	130			

Sample ID: **mb-51748**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **51748**	RunNo: **68134**
Prep Date: **4/12/2020**	Analysis Date: **4/14/2020**	SeqNo: **2355429** 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	500		500.0		100	70	130			

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

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 CARLSB Work Order Number: 2004554 RcptNo: 1

Received By: **Erin Melendrez** 4/11/2020 10:00:00 AM

Completed By: **Erin Melendrez** 4/11/2020 11:28:20 AM

Reviewed By:

Chain of Custody

1. Is Chain of Custody sufficiently 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. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
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: ENH 4/11/20

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	0.6	Good				
2	3.3	Good				

Chain-of-Custody Record

Client: WPX

Lynda Laumbach

Mailing Address: 5315 Buena Vista Dr.

Carlsbad, NM 88220

Phone #: 575-725-1647

email or Fax#: lynda.laumbach@wpxenergy.com

QA/QC Package:

☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☑ Standard ☐ Rush

Project Name: (NBD 35-2) North Brushy Draw 35-2

Project #:

Project Manager: Lynda Laumbach

Sampler: Annie McCawley

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp (including CF): 0.9-0.3(CF)=0.6(°C) 3.6-0.3(CF)=3.3(°C)

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 Name	Container Type and #	Preservative Type	HEAL No	BTEX / MTBE / TMB's (8021)	TPH: 8015D(GRO / DRO / MRO) 8015M	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
4/9/20	13:30	Soil	J5	4oz Glass	Ice	-013	X	X					X			
4/9/20	10:42	Soil	A Walls	4oz Glass	Ice	-014	X	X					X			
4/9/20	10:48	Soil	BC South Wall	4oz Glass	Ice	-015	X	X					X			
4/9/20	10:49	Soil	BC (North) Wall	4oz Glass	Ice	-016	X	X					X			
4/9/20	11:01	Soil	DE Walls	4oz Glass	Ice	-017	X	X					X			
4/9/20	11:04	Soil	FG Southeast Walls	4oz Glass	Ice	-018	X	X					X			
4/9/20	11:07	Soil	FGH (North) Walls	4oz Glass	Ice	-019	X	X					X			
4/9/20	13:32	Soil	I&J Wall	4oz Glass	Ice	-020	X	X					X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
4/10/20	8:26				4/10	8:26
4/10	1900			Courier	4/11/20	1000

Remarks: Please also send report to Annie McCawley and Julie Linn
AMcCawley@HRLcomp.com
JLinn@HRLcomp.com

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.

Chain-of-Custody Record

Client: WPX - Carlsbad

Lynda Laumbach

Mailing Address: 5315 Buena Vista Dr.

Carlsbad, NM 88220

Phone #: 575-725-1647

email or Fax#: lynda.laumbach@wpxenergy.com

QA/QC Package:

☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:

☑ Standard ☐ Rush_____

Project Name: (NBD 35-2) North Brushy Draw 35-2

Project #:

Project Manager: Lynda Laumbach

Sampler: Annie McCawley

On Ice: ☒ Yes ☐ No

# of Coolers: 1 (2 ENVI) 4/11/20

Cooler Temp(including CF): 0.9-0.3(CF)=0.6(°C) 3.6-0.3(CF)=3.3°C

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 Name	Container Type and #	Preservative Type	HEAL No. 2004554	BTEX / MTBE / TMB's (8021)	TPH 8015D GRO / DRO / MRO (8015M/D)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	(Cl), F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
4/9/20	10:41	Soil	A Floor	4oz Glass	Ice	-001	X	X					X			
4/9/20	9:19	Soil	B Floor	4oz Glass	Ice	-002	X	X					X			
4/9/20	9:23	Soil	C Floors	4oz Glass	Ice	-003	X	X					X			
4/9/20	9:35	Soil	DE Floors	4oz Glass	Ice	-004	X	X					X			
4/9/20	9:51	Soil	F Floor	4oz Glass	Ice	-005	X	X					X			
4/9/20	9:55	Soil	G Floor	4oz Glass	Ice	-006	X	X					X			
4/9/20	9:59	Soil	H Floor	4oz Glass	Ice	-007	X	X					X			
4/9/20	11:28	Soil	I Floor	4oz Glass	Ice	-008	X	X					X			
4/9/20	13:17	Soil	J1	4oz Glass	Ice	-009	X	X					X			
4/9/20	13:19	Soil	J2	4oz Glass	Ice	-010	X	X					X			
4/9/20	13:21	Soil	J3	4oz Glass	Ice	-011	X	X					X			
4/9/20	13:23	Soil	J4	4oz Glass	Ice	-012	X	X					X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
4/10/20	8:26				4/10	8:26
4/10	1900			Courier	4/11/20	1000

Remarks:
Please also send report to Annie McCawley and Julie Linn.
amccawley@HRLcomp.com
jlinn@HRLcomp.com

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.

Attachment 02

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No. North Brushy Draw Federal 35 #002

2. Name of Operator WPX Energy Permian, LLC.

9. API Well No. 30-015-40006

3a. Address 5315 Buena Vista Drive Carlsbad, NM 88220

3b. Phone No. *(include area code)* (575) 725-1647

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
A-35-25S-29E, 32.09262, -103.94861 (NAD83)

11. Country or Parish, State
Eddy, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☑ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

WPX is requesting access to the pasture west of the Site. WPX will begin with delineation sampling of the area then will push forward with remediation activities. A Site map illustrating the area of requested access is attached.

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
Lynda Laumbach

Title Environmental Specialist

Signature Lynda Laumbach

Date 03/09/2020

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

State of New Mexico
Oil Conservation Division

Incident ID	NRM20206956859
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- [X] Detailed description of proposed remediation technique
- [X] Scaled sitemap with GPS coordinates showing delineation points
- [X] Estimated volume of material to be remediated
- [X] Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- [X] Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

- [ ] Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- [ ] Extents of contamination must be fully delineated.
- [ ] Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: 11/12/2020

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

OCD Only

Received by: Robert Hamlet Date: 4/7/2021

- [ ] Approved
- [X] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: Robert Hamlet Date: 4/7/2021

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

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

CONDITIONS

Action 11190

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
WPX ENERGY PERMIAN, LLC	3500 One Williams Center	Tulsa, OK74172	246289	11190	C-141

OCD Reviewer	Condition
rhamlet	The Remediation Plan is approved with the following conditions: All floor samples need to be below closure criteria standards of <50' depth to groundwater from Table 1 of the spill rule. Please make sure the edges/sidewalls are delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH. All soil samples need to be tested for all components in Table 1 of the OCD Spill Rule.