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

State of New Mexico
Energy Minerals and Natural Resources

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

RECEIVED
MAR 06 2014
NMOCD ARTESIA

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

nHMP1407325518 246289 **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company RKI EXPLORATION & PRODUCTION	Contact HEATHER BREHM
Address 210 PARK AVE, STE 900, OKC, OK 73102	Telephone No. 405-996-5769
Facility Name ROSS DRAW 12	Facility Type POW

Surface Owner	Mineral Owner	API No. 30-015-24793

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	33	26S	30E	467'	NORTH	660'	EAST	EDDY

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release OIL/WATER	Volume of Release 15 BBLS	Volume Recovered 0 BBLS
Source of Release TRANSFER PUMP	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom? 2-25-14 UKN TIME	BLM DISCOVERED 3/5/14 @ 9:00 AM
By Whom? M. BALLIET, BLM	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
WATER TANK RAN OVER, TRANSFER PUMP OVERLOAD

Describe Area Affected and Cleanup Action Taken.*
SPILL WAS CONTAINED IN DIRT CONTAINMENT; DYKE

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

Signature: Heather Brehm

Printed Name: Heather Brehm

Title: Regulatory Analyst

E-mail Address: hbrehm@rkixp.com

Date: 3/06/2014 Phone: 405-996-5769

* Attach Additional Sheets If Necessary

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 3-14-14 Expiration Date: NA

Conditions of Approval: Attached ☐

Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 4-14-14

2RP 2211

District I
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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	nHMP1407325518
District RP	2RP-2211
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: Jim.Raley@dvn.com	Incident # *(assigned by OCD)*: nHMP1407325518
Contact mailing address: 5315 Buena Vista Drive, Carlsbad NM	

Location of Release Source

Latitude 32.004760 Longitude -103.879814
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Ross Draw Unit #012	Site Type: Oil Production Facility
Date Release Discovered: 03/05/2014	API# *(if applicable)*: 30-015-24793

Unit Letter	Section	Township	Range	County
A	33	26S	30E	Eddy

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

Nature and Volume of Release

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

☒ Crude Oil/ Produced Water	Volume Released (bbls): 15	Volume Recovered (bbls): 0
☐ Produced Water	Volume Released (bbls):	Volume Recovered (bbls):
	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: A transfer pump overload resulted in a tank overflow to secondary containment.

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

State of New Mexico
Oil Conservation Division

Incident ID	nHMP1407325518
District RP	2RP-2211
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? Volume exceeded 25bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notification was submitted via email on 3/6/2014 to Mike Bratcher.	

Initial Response

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

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

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Jim Raley Title: Environmental Professional

Signature: Jim Raley Date: 9/5/2023

email: Jim.Raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	nHMP1407325518
District RP	2RP-2211
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.

State of New Mexico
Oil Conservation Division

Incident ID	nHMP1407325518
District RP	2RP-2211
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: Jim Raley Title: Environmental Professional

Signature: Jim Raley Date: 9/5/2023

email: Jim.Raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

Incident ID	nHMP1407325518
District RP	2RP-2211
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Jim Raley Title: Environmental Professional

Signature: Jim Raley Date: 9/5/2023

email: Jim.Raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Environmental & Safety Solutions, Inc.

CLOSURE REQUEST REPORT

Ross Draw Unit #012

Eddy County, New Mexico

Incident Numbers

nHMP1407325518

nAPP2315142829

Prepared For:

WPX Energy Permian, LLC

5315 Buena Vista Dr.

Carlsbad, NM 88220

Carlsbad ● Midland ● San Antonio ● Lubbock ● Hobbs ● Lafayette

SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Closure Request Report (CRR) detailing corrective actions and subsequent soil sampling events performed for two inadvertent releases of crude oil and produced water at the Ross Draw #012, also referred to as Ross Draw Unit #012 (Site). Based on completed remedial actions and laboratory analytical results from recent soil sampling events, WPX is requesting No Further Action (NFA) at the Site.

SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit A, Section 33, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.0047607°, -103.8798141°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1** in **Appendix A**).

nHMP1407325518

On March 5, 2014, it was discovered that a tank overflow resulted in the release of approximately 15 barrels (bbls) of crude oil and produced water within the secondary containment earthen berm; no fluids were recovered. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on March 6, 2014, and was subsequently assigned Incident Number nHMP1407325518. **Figure 2** in **Appendix A** depicts the observed subject release footprint, hereafter referred to as the Area of Concern #1 (AOC #1). It should be noted that the original Form C-141 for Incident Number nHMP1407325518 did not include Global Positioning System (GPS) coordinates for the release but are provided on the updated Final Form C-141.

Between January 15 and February 25, 2020, Etech conducted initial site assessment and delineation activities at the Site to investigate residual soil impacts associated with the AOC #1 and an additional release on the same production pad (Incident Number nAB1702749185). Upon receipt of analytical results, a Closure Request (CR) was prepared and submitted on March 27, 2020, for both incidents. The NMOCD reviewed the CR and denied the request for Incident Number nHMP1407325518 on March 29, 2023, for the following reason:

- "The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater."

Multiple soil borings have been advanced to assist with the depth to groundwater determination of the region since the denial of Incident Number nHMP1407325518 and is described below. Summaries of previous sampling events and laboratory analytical results may be referenced in the CR. However, a more recent spill (Incident Number nAPP2315142829) overlapping AOC #1 has invalidated the laboratory analytical data in the CR, as the data does not provide a current representation of residual soil impacts in same earthen containment impacted by Incident Number nHMP1407235518. WPX requested an extension of the deadline for the two overlapping releases to provide enough time for additional planning, remediation activities and subsequent corrective action report, which was approved by the NMOCD on June 15, 2023.

nAPP2315142829

On May 19, 2023, a tank overflow resulted in the release of approximately 30 bbls of produced water within the secondary containment earthen berm overlapping AOC #1. A vacuum truck was dispatched to

the Site and recovered approximately 20 bbls of free-standing fluids. WPX reported the release to the NMOCD on a Form C-141 on May 31, 2023, and was subsequently assigned Incident Number nAPP2315142829. **Figure 2** in **Appendix A** depicts the observed release footprint, hereafter referred to as the Area of Concern #2 (AOC #2).

SITE CHARACTERIZATION AND CLOSURE CRITERIA

Etech characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) considering depth to groundwater and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

The nearest permitted water well used in the CR with depth to water data was United States Geological Survey (USGS) well 320125103514701, located approximately 1.6 miles northeast of the Site. USGS well 320125103514701 has a reported depth of water 117 feet below ground surface (bgs) from 1987. Due to the age of the groundwater measurement and the distance of the well from the Site (greater than 25 years old and greater than ½ mile), NMOCD determined the data to be insufficient to assist with the regional groundwater depth estimate at the Site.

Since the submittal of the CR, on December 9, 2020, Talon LPE drilled a soil boring (MW-1), located approximately ½ mile northeast of the Site on the Ross Draw Unit #57 well pad. Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 110 feet bgs. No fluids were observed throughout the drilling process nor after a 72-hour observation period. Following the observation period, the boring was plugged and abandoned according to the appropriate regulations. Well records for referenced wells are provided in **Appendix B**.

Based on the desktop review of the current Bureau of Land Management (BLM) Carlsbad Field Office (CFO) karst cave potential map, this Site is located in a medium potential karst area. All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used to determine the site characterization are included in **Figure 1** in **Appendix A**.

Based on the results from the desktop review and estimated regional depth to groundwater at the Site, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria†
Chloride	Environmental Protection Agency (EPA) 300.0	20,000 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	2,500 mg/kg

Gasoline Range Organics (GRO) + Diesel Range Organics (DRO)	EPA 8015 M/D	1,000 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

†*The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.*

DELINEATION SOIL SAMPLING ACTIVITIES

On June 19, 2023, Etech conducted delineation activities to characterize residual impacted soil within and around AOC #1 and AOC #2. Two potholes (PH01 and PH02) were advanced within the secondary containment earthen berm impacted by the AOCs, and four potholes (PH03 through PH06) were advanced in every cardinal direction to confirm horizontal delineation of the AOCs. Delineation activities were driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A total of two samples were collected from each delineation soil sampling location, representing the highest observed field screening concentrations and the greatest depth. Field screening results and soil descriptions are included on soil sampling logs shown in **Appendix C**. The locations of the delineation soil samples are shown in **Figure 2** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix D**.

The delineation soil samples were placed directly into lab provided pre-cleaned glass jars, packaged with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures, to Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of COCs.

DELINEATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples were below the applicable Site Closure Criteria, except for soil samples collected at 0.5-foot bgs from PH01 and PH02 locations where laboratory analytical results indicated elevated chloride and TPH concentrations. Laboratory analytical results for soil samples collected from PH03 through PH06 locations provided sufficient horizontal delineation for both AOCs. Laboratory analytical results are summarized in **Table 1** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**.

EXCAVATION SOIL SAMPLING ACTIVITIES

From July 26, 2023, to July 27, 2023, Etech directed excavation activities via mechanical equipment by referencing PH01 and PH02 laboratory analytical results and by field screening soil for VOCs and chloride as described above. Following the removal of soil, Etech collected 5-point composite floor soil samples (FS01 through FS06) and sidewall samples (SW01 and SW02) at a sampling frequency of 200 square feet from the excavation. The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The samples were then handled and analyzed for COCs as previously described.

Upon completion of remediation activities, impacted soil was removed from the Site and transported to a licensed and approved New Mexico landfill under WPX approved manifests. Upon receipt of the final confirmation excavation soil samples results, the excavation was backfilled with clean, locally sourced soil and the Site was restored to “as close to its original state” as possible. Photographic documentation of all Site activities is included in **Appendix D**.

EXCAVATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all final confirmation excavation soil samples indicated all analyzed COCs were below the applicable Site Closure Criteria. Laboratory analytical results are summarized in **Table 1** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**.

CLOSURE REQUEST

Based on the laboratory analytical results, WPX believes residual impacts associated with the two overlapping, inadvertent releases have been delineated, excavated, and removed from the Site. Concentrations of COCs for all excavation soil samples were below the applicable Site Closure Criteria. Furthermore, the horizontal periphery of impacts has been defined for AOC #1 and AOC #2 via delineation and/or confirmation sampling. WPX believes the completed remedial actions have mitigated impacts at the Site and fulfilled requirements set forth in NMAC 19.15.29.13 guidelines in order to be protective of human health, the environment and ground water. As such, WPX respectfully requests NFA of Incident Numbers nHMP1407325518 and nAPP2315142829.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or joseph@etechenv.com or Gilbert Moreno at (832) 541-7719 or gilbert@etechenv.com. **Appendix G** provides correspondence and email notification receipts associated with the subject releases. Previous remediation activities and soil sample analytical results for the subject release can be referenced in the Original CR in **Appendix H.**

Sincerely,
Etech Environmental and Safety Solutions, Inc.

Gilbert Moreno
Project Geologist

Joseph S. Hernandez
Senior Managing Geologist

cc: Jim Raley, WPX
New Mexico Oil Conservation Division
Bureau of Land Management

Appendices:

Appendix A: Figure 1: Site Map
Figure 2: Delineation Soil Sample Locations
Figure 3: Excavation Soil Sample Locations
Appendix B: Referenced Well Records
Appendix C: Soil Sampling Logs
Appendix D: Photographic Log
Appendix E: Tables

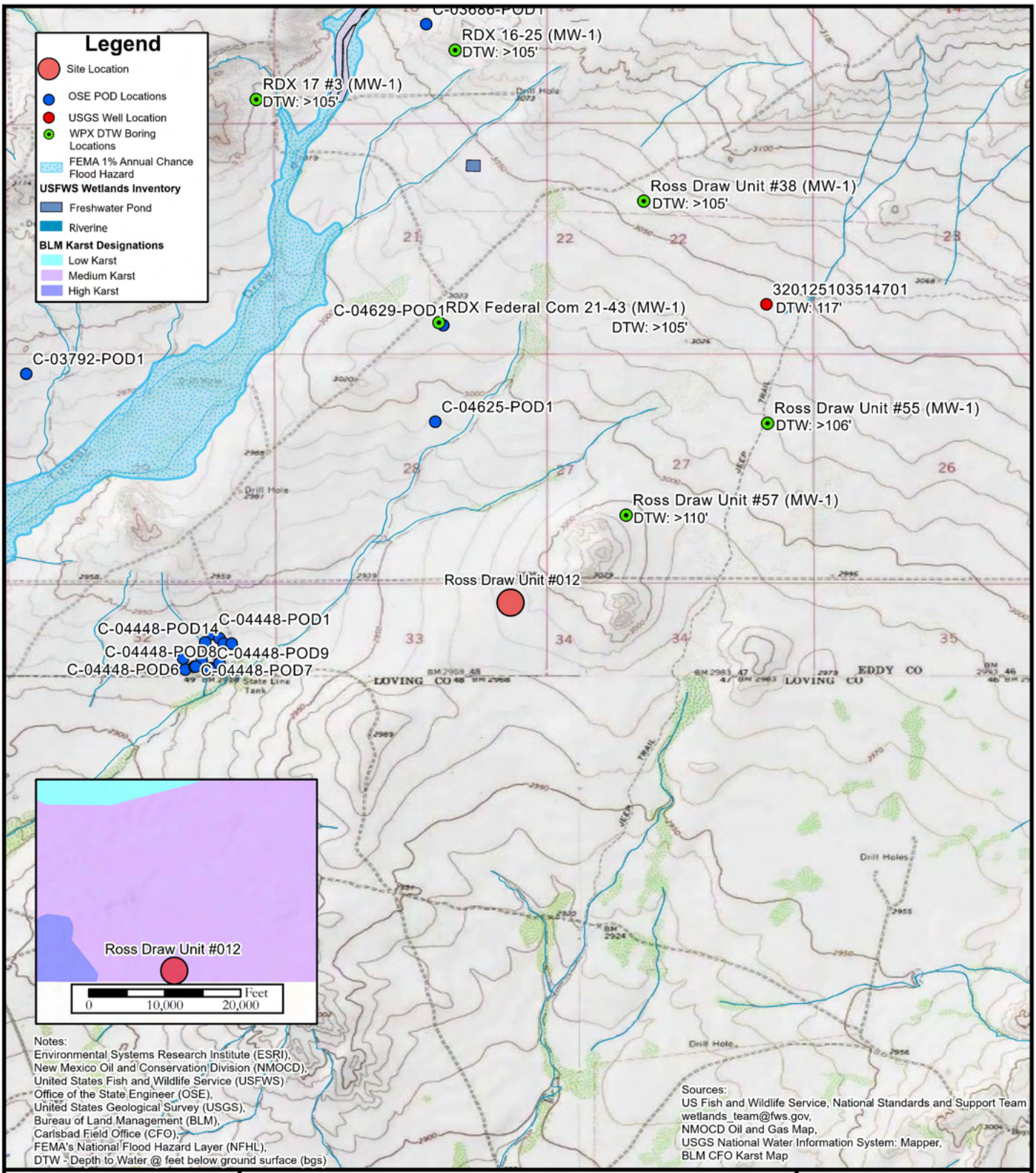
Appendix F: Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix G: NMOCD Notifications

Appendix H: Original Closure Request

APPENDIX A

Figures



eTECH

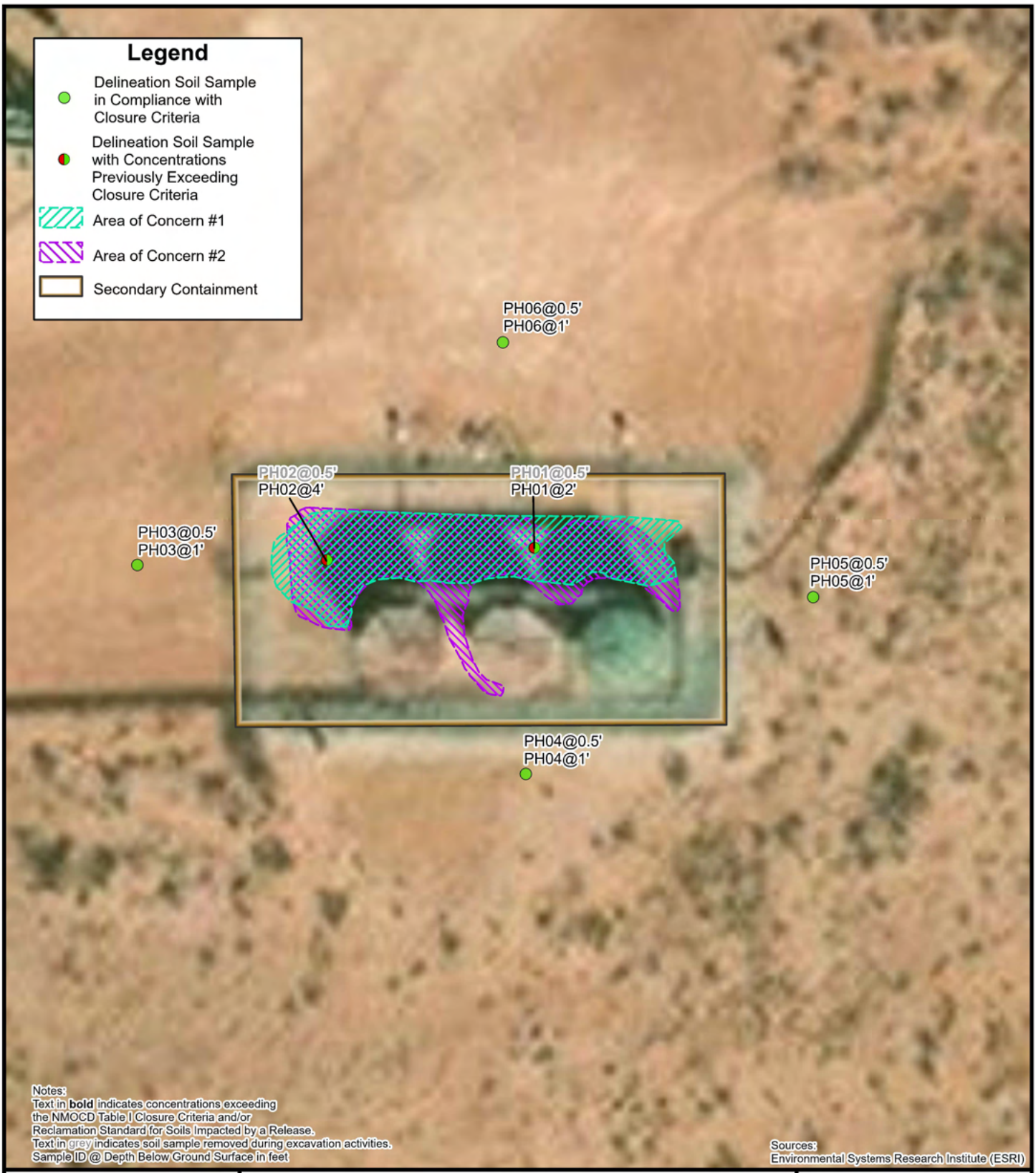
FIGURE 1

Site Map

WPX ENERGY PERMIAN, LLC
Ross Draw Unit #012
Unit A Sec 33 T26S R30E
Eddy County, New Mexico

N

Feet
0
1,500
3,000



eTECH

FIGURE 2

Delineation Soil Sample Locations

WPX ENERGY PERMIAN, LLC
Ross Draw Unit #012
Unit A Sec 33 T26S R30E
Eddy County, New Mexico

N

0 15 30 Feet

eTECH

FIGURE 3

Excavation Soil Sample Locations

WPX ENERGY PERMIAN, LLC
Ross Draw Unit #012
Unit A Sec 33 T26S R30E
Eddy County, New Mexico

N

0 15 30 Feet

APPENDIX B

Referenced Well Record

HRL COMPLIANCE SOLUTIONS

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW-1		Location: Ross Draw Unit #57	
Date: 12/9/2020		Client: WPX Energy	
Drilling Method: Air Rotary	Sampling Method: None	Logged By: J. Linn, PG	Drilled By: Talon LPE
Gravel Pack Type: 10/20 Sand	Gravel Pack Depth Interval: 3 Bags	Seal Type: None / Seal Depth Interval: None	Latitude: 32.01032
Casing Type: PVC / Diameter: 2-inch / Depth Interval: 0-105 feet bgs		Boring Total Depth (ft. BGS): 110	Longitude: -103.87246
Screen Type: PVC / Slot: 0.010-inch / Diameter: 2-inch / Depth Interval: 105-110 ft		Well Total Depth (ft. BGS): 110	Depth to Water (ft. BTOC): > 110 / DTW Date: 12/16/2020

Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks	Well Completion
0	NM	L/M	D	N	N	NM	SM	NS	Tan/pale orange/pale brown poorly graded fine sand	
5										
10										
15										
20										
25										
30										
35										
40	NM	M	D	N	N	NM	SW	NS	Hard, dry pale pink orange well graded sand with gravel	
45										
50	NM	M	D	N	N	NM	SM	NS	Pale orange red tan silty fine sand	
55										
60	NM	L	D	N	N	NM	SW	NS	Dark brown greyish well graded sand	
65										
70	NM	L/M	D to SL M	N	N	NM	SW	NS	Grey well graded sand	
75										
80										
85										
90										
95										
100	NM	L/M	D	N	N	NM	SM	NS	Tan/pale orange/pale brown poorly graded fine sand - TD 110' bgs	
105										

APPENDIX C

Soil Sampling Logs

eTECH

	Sample Name: PH01	Date: 06/20/2023
	Site Name: Ross Draw Unit #012	
	Incident Number: nHMP1407235518 & nAPP2315142829	
	Job Number: 18227	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Backhoe
Site Coordinates: 32.0047607,-103.8798141	Hole Diameter: N/A	Total Depth: 2'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SW-SM	(0-2') SAND, dry, brown, well graded with silt, fine to coarse
Dry	2,122	276.5	Yes	PH01	0.5			`
Dry	1,944	43.0	No		1	1		@1' no stain.
								@2' color change to reddish brown, no odor, pad fill.
Dry	372	5.5	No	PH01	2	2		

Total Depth

eTECH

	Sample Name: PH02	Date: 06/20/2023
	Site Name: Ross Draw Unit #012	
	Incident Number: nHMP1407235518 & nAPP2315142829	
	Job Number: 18227	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Backhoe
Site Coordinates: 32.0047607,-103.8798141	Hole Diameter: N/A	Total Depth: 2'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SW-SM	(0-4') SAND, dry, brown, well graded with silt, fine to coarse
Dry	6,064	57.8	Yes	PH02	0.5			`
Dry	372	26.0	No		1	1		@1' no stain.
								@2' color change to reddish brown, pad fill.
Dry	<120	181.2	No		2	2		
								@4' no odor.
Dry	<120	53.2	No		3	3		
Dry	<120	18.2	No	PH02	4	4		

Total Depth

eTECH

	Sample Name: PH03	Date: 06/20/2023
	Site Name: Ross Draw Unit #012	
	Incident Number: nHMP1407235518 & nAPP2315142829	
	Job Number: 18227	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Backhoe
Site Coordinates: 32.0047607,-103.8798141	Hole Diameter: N/A	Total Depth: 2'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SW-SM	(0-1') SAND, dry, tan, well graded with silt, very fine to fine
Dry	<120	0.2	No	PH03	0.5			`
Dry	<120	0.4	No	PH03	1	1		

Total Depth

eTECH

	Sample Name: PH04	Date: 06/20/2023
	Site Name: Ross Draw Unit #012	
	Incident Number: nHMP1407235518 & nAPP2315142829	
	Job Number: 18227	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Backhoe
Site Coordinates: 32.0047607,-103.8798141	Hole Diameter: N/A	Total Depth: 2'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SW-SM	(0-1') SAND, dry, tan, well graded with silt, very fine to fine
Dry	<120	0.0	No	PH04	0.5			`
Dry	<120	0.0	No	PH04	1	1		

Total Depth

eTECH

	Sample Name: PH05	Date: 06/20/2023
	Site Name: Ross Draw Unit #012	
	Incident Number: nHMP1407235518 & nAPP2315142829	
	Job Number: 18227	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Backhoe
Site Coordinates: 32.0047607,-103.8798141	Hole Diameter: N/A	Total Depth: 2'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SW-SM	(0-1') SAND, dry, tan, well graded with silt, very fine to fine
Dry	<120	0.0	No	PH05	0.5			`
Dry	<120	0.0	No	PH05	1	1		

Total Depth

eTECH

	Sample Name: PH06	Date: 06/20/2023
	Site Name: Ross Draw Unit #012	
	Incident Number: nHMP1407235518 & nAPP2315142829	
	Job Number: 18227	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Backhoe
Site Coordinates: 32.0047607,-103.8798141	Hole Diameter: N/A	Total Depth: 2'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SW-SM	(0-1') SAND, dry, tan, well graded with silt, very fine to fine
Dry	<120	0.0	No	PH06	0.5			`
Dry	<120	0.0	No	PH06	1	1		

Total Depth

APPENDIX D

Photographic Log

PHOTOGRAPHIC LOG
WPX Energy Permian, LLC
Ross Draw Unit #012
nHMP1407325518 & nAPP2315142829

Photograph 1 **Date: 06/19/2023**
Description: Eastern view of delineation activities near PH02.

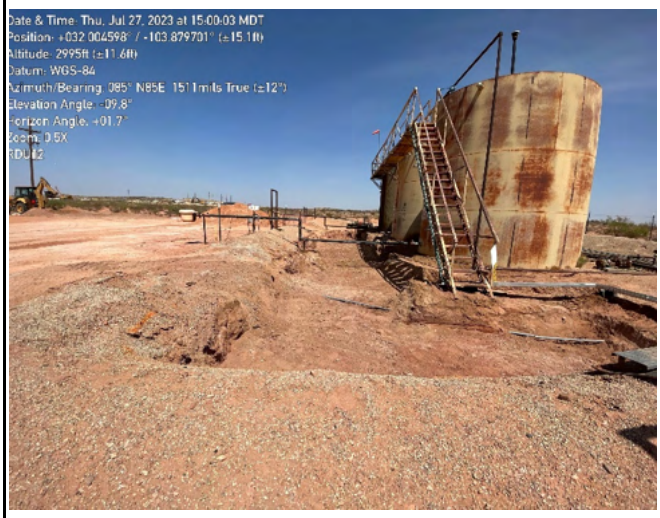
Photograph 2 **Date: 06/19/2023**
Description: Northeastern view of delineation activities near PH03.

Photograph 3 **Date: 06/19/2023**
Description: Eastern view of delineation activities near PH06.

Photograph 4 **Date: 07/27/2023**
Description: Southeastern view of completed excavation extent.

PHOTOGRAPHIC LOG
WPX Energy Permian, LLC
Ross Draw Unit #012
nHMP1407325518 & nAPP2315142829

Photograph 5 **Date: 07/27/2023**
Description: Western view of completed excavation extent.



Photograph 6 **Date: 07/27/2023**
Description: Eastern view of completed excavation extent.

Photograph 7 **Date: 08/09/2023**
Description: Western view of completed backfill.

Photograph 8 **Date: 08/09/2023**
Description: Southwestern view of completed backfill.

APPENDIX E

Tables

eTECH

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Ross Draw Unit #012
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
Delineation Soil Samples - Incident Numbers nHMP1407235518 & nAPP2315142829										
PH01	06/20/2023	0.5	<0.0250	0.728	24.5	1,300	542	**1,542**	1,566.5	**6,660**
PH01	06/20/2023	2	<0.0250	<0.0250	<20.0	70.6	<50.0	70.6	70.6	<200
PH02	06/20/2023	0.5	<0.0500	<0.0500	<40.0	**8,510**	**4,050**	**12,560**	**12,560**	**6,630**
PH02	06/20/2023	4	<0.0250	<0.0250	<20.0	56.4	<50.0	56.4	56.4	<200
PH03	06/20/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
PH03	06/20/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
PH04	06/20/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	116
PH04	06/20/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<100
PH05	06/20/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<100
PH05	06/20/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<100
PH06	06/20/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
PH06	06/20/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
Excavation Soil Samples - Incident Numbers nHMP1407235518 & nAPP2315142829										
FS01	07/28/23	0.5-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS02	07/28/23	0.5-2	<0.0250	<0.0250	<20.0	105	69.2	174.2	174.2	212
FS03	07/28/23	0.5-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS04	07/28/23	0.5-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS05	07/28/23	0.5-2	<0.0250	<0.0250	<20.0	212	146	358	358.0	381
FS06	07/28/23	0.5-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW01	07/28/23	0-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW02	07/28/23	0-2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200

Notes:
bgs: below ground surface
mg/kg: milligrams per kilogram
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
NMOCD: New Mexico Oil Conservation Division
NMAC: New Mexico Administrative Code
Text in "grey" represents excavated soil samples
*Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release*

APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213

Report to:

Gilbert Moreno

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	RDU 12
Work Order:	E306160
Job Number:	01058-0007
Received:	6/21/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/21/23

Date Reported: 8/21/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDU 12
Workorder: E306160
Date Received: 6/21/2023 10:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/21/2023 10:00:00AM, under the Project Name: RDU 12.

The analytical test results summarized in this report with the Project Name: RDU 12 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
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Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDU 12	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/21/23 15:10

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 0.5'	E306160-01A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH01 2'	E306160-02A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH02 0.5'	E306160-03A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH02 4'	E306160-04A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH03 0.5'	E306160-05A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH03 1'	E306160-06A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH04 0.5'	E306160-07A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH04 1'	E306160-08A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH05 0.5'	E306160-09A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH05 1'	E306160-10A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH06 0.5'	E306160-11A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.
PH06 1'	E306160-12A	Soil	06/20/23	06/21/23	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH01 0.5'

E306160-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/22/23	
Ethylbenzene	**0.128**	0.0250	1	06/21/23	06/22/23	
Toluene	ND	0.0250	1	06/21/23	06/22/23	
o-Xylene	**0.103**	0.0250	1	06/21/23	06/22/23	
p,m-Xylene	**0.370**	0.0500	1	06/21/23	06/22/23	
Total Xylenes	**0.472**	0.0250	1	06/21/23	06/22/23	
Surrogate: 4-Bromochlorobenzene-PID		*98.7 %*	*70-130*	*06/21/23*	*06/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	**24.5**	20.0	1	06/21/23	06/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.6 %*	*70-130*	*06/21/23*	*06/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2325064
Diesel Range Organics (C10-C28)	**1300**	50.0	2	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	**542**	100	2	06/22/23	06/24/23	
Surrogate: n-Nonane		*88.5 %*	*50-200*	*06/22/23*	*06/24/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2325052
Chloride	**6660**	400	20	06/21/23	06/23/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH01 2'

E306160-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/22/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/22/23	
Toluene	ND	0.0250	1	06/21/23	06/22/23	
o-Xylene	ND	0.0250	1	06/21/23	06/22/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/22/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/22/23	
Surrogate: 4-Bromochlorobenzene-PID		*97.3 %*	*70-130*	*06/21/23*	*06/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.8 %*	*70-130*	*06/21/23*	*06/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2325064
Diesel Range Organics (C10-C28)	**70.6**	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		*76.7 %*	*50-200*	*06/22/23*	*06/24/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2325052
Chloride	ND	200	10	06/21/23	06/23/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH02 0.5'

E306160-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Benzene	ND	0.0500	2	06/21/23	06/23/23	
Ethylbenzene	ND	0.0500	2	06/21/23	06/23/23	
Toluene	ND	0.0500	2	06/21/23	06/23/23	
o-Xylene	ND	0.0500	2	06/21/23	06/23/23	
p,m-Xylene	ND	0.100	2	06/21/23	06/23/23	
Total Xylenes	ND	0.0500	2	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	40.0	2	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.8 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2325064
Diesel Range Organics (C10-C28)	**8510**	500	20	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	**4050**	1000	20	06/22/23	06/24/23	
Surrogate: n-Nonane		*114 %*	*50-200*	*06/22/23*	*06/24/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2325052
Chloride	**6630**	400	20	06/21/23	06/23/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH02 4'

E306160-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
o-Xylene	ND	0.0250	1	06/21/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.1 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.4 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2325064
Diesel Range Organics (C10-C28)	**56.4**	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		*79.5 %*	*50-200*	*06/22/23*	*06/24/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2325052
Chloride	ND	200	10	06/21/23	06/23/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH03 0.5'

E306160-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
o-Xylene	ND	0.0250	1	06/21/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		*90.5 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.9 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		*81.8 %*	*50-200*	*06/22/23*	*06/24/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2325052
Chloride	ND	200	10	06/21/23	06/23/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH03 1'

E306160-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
o-Xylene	ND	0.0250	1	06/21/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.6 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.3 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		*78.3 %*	*50-200*	*06/22/23*	*06/24/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2325052
Chloride	ND	200	10	06/21/23	06/23/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH04 0.5'

E306160-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
o-Xylene	ND	0.0250	1	06/21/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.2 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.0 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		*81.3 %*	*50-200*	*06/22/23*	*06/24/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2325052
Chloride	**116**	100	5	06/21/23	06/23/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH04 1'

E306160-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
o-Xylene	ND	0.0250	1	06/21/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.7 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.6 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		*92.0 %*	*50-200*	*06/22/23*	*06/24/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2325052
Chloride	ND	100	5	06/21/23	06/23/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH05 0.5'

E306160-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
o-Xylene	ND	0.0250	1	06/21/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.7 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.4 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		*89.9 %*	*50-200*	*06/22/23*	*06/24/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2325052
Chloride	ND	100	5	06/21/23	06/23/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH05 1'

E306160-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
o-Xylene	ND	0.0250	1	06/21/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.7 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.2 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		*92.1 %*	*50-200*	*06/22/23*	*06/24/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2325052
Chloride	ND	100	5	06/21/23	06/23/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH06 0.5'

E306160-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
o-Xylene	ND	0.0250	1	06/21/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.1 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.5 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		*92.3 %*	*50-200*	*06/22/23*	*06/24/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2325052
Chloride	ND	200	10	06/21/23	06/23/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

PH06 1'

E306160-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Benzene	ND	0.0250	1	06/21/23	06/23/23	
Ethylbenzene	ND	0.0250	1	06/21/23	06/23/23	
Toluene	ND	0.0250	1	06/21/23	06/23/23	
o-Xylene	ND	0.0250	1	06/21/23	06/23/23	
p,m-Xylene	ND	0.0500	1	06/21/23	06/23/23	
Total Xylenes	ND	0.0250	1	06/21/23	06/23/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.1 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2325049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/23	06/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.9 %*	*70-130*	*06/21/23*	*06/23/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2325064
Diesel Range Organics (C10-C28)	ND	25.0	1	06/22/23	06/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/22/23	06/24/23	
Surrogate: n-Nonane		*82.6 %*	*50-200*	*06/22/23*	*06/24/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2325052
Chloride	ND	200	10	06/21/23	06/23/23	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDU 12	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2325049-BLK1)									Prepared: 06/21/23 Analyzed: 06/22/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.61*		*8.00*		*95.1*	*70-130*			
LCS (2325049-BS1)									Prepared: 06/21/23 Analyzed: 06/22/23
Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.08	0.0250	5.00		102	70-130			
o-Xylene	5.02	0.0250	5.00		100	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.65*		*8.00*		*95.6*	*70-130*			
Matrix Spike (2325049-MS1)				**Source: E306159-07**					Prepared: 06/21/23 Analyzed: 06/22/23
Benzene	4.99	0.0250	5.00	ND	99.8	54-133			
Ethylbenzene	4.89	0.0250	5.00	ND	97.8	61-133			
Toluene	4.96	0.0250	5.00	ND	99.1	61-130			
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131			
p,m-Xylene	9.96	0.0500	10.0	ND	99.6	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.59*		*8.00*		*94.9*	*70-130*			
Matrix Spike Dup (2325049-MSD1)				**Source: E306159-07**					Prepared: 06/21/23 Analyzed: 06/22/23
Benzene	5.22	0.0250	5.00	ND	104	54-133	4.56	20	
Ethylbenzene	5.14	0.0250	5.00	ND	103	61-133	4.99	20	
Toluene	5.20	0.0250	5.00	ND	104	61-130	4.72	20	
o-Xylene	5.13	0.0250	5.00	ND	103	63-131	4.76	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	4.78	20	
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131	4.77	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.64*		*8.00*		*95.5*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDU 12	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2325049-BLK1)									Prepared: 06/21/23 Analyzed: 06/22/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.27*		*8.00*		*90.9*	*70-130*			
LCS (2325049-BS2)									Prepared: 06/21/23 Analyzed: 06/22/23
Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.37*		*8.00*		*92.2*	*70-130*			
Matrix Spike (2325049-MS2)				**Source: E306159-07**					Prepared: 06/21/23 Analyzed: 06/22/23
Gasoline Range Organics (C6-C10)	46.7	20.0	50.0	ND	93.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.17*		*8.00*		*89.7*	*70-130*			
Matrix Spike Dup (2325049-MSD2)				**Source: E306159-07**					Prepared: 06/21/23 Analyzed: 06/22/23
Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130	0.786	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.36*		*8.00*		*91.9*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDU 12	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2325064-BLK1)									Prepared: 06/22/23 Analyzed: 06/23/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*48.7*		*50.0*		*97.4*	*50-200*			
LCS (2325064-BS1)									Prepared: 06/22/23 Analyzed: 06/23/23
Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132			
Surrogate: n-Nonane	*34.5*		*50.0*		*68.9*	*50-200*			
Matrix Spike (2325064-MS1)				**Source: E306160-04**					Prepared: 06/22/23 Analyzed: 06/23/23
Diesel Range Organics (C10-C28)	342	25.0	250	56.4	114	38-132			
Surrogate: n-Nonane	*31.1*		*50.0*		*62.2*	*50-200*			
Matrix Spike Dup (2325064-MSD1)				**Source: E306160-04**					Prepared: 06/22/23 Analyzed: 06/23/23
Diesel Range Organics (C10-C28)	367	25.0	250	56.4	124	38-132	7.07	20	
Surrogate: n-Nonane	*30.7*		*50.0*		*61.4*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDU 12	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:10:36PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2325052-BLK1)									Prepared: 06/21/23 Analyzed: 06/23/23
Chloride	ND	20.0							
LCS (2325052-BS1)									Prepared: 06/21/23 Analyzed: 06/23/23
Chloride	246	20.0	250		98.6	90-110			
Matrix Spike (2325052-MS1)				**Source: E306159-01**					Prepared: 06/21/23 Analyzed: 06/23/23
Chloride	264	20.0	250	ND	106	80-120			
Matrix Spike Dup (2325052-MSD1)				**Source: E306159-01**					Prepared: 06/21/23 Analyzed: 06/23/23
Chloride	264	20.0	250	ND	106	80-120	0.0462	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/21/23 15:10

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Client: WPX Energy Permian LLC.	Bill To	Lab Use Only		TAT	EPA Program
Project: RDU 12	Attention: Jim Raley	Lab WO# E306160	Job Number 01058-0007	1D / 2D / 3D / Standard: 5 day TAT	CWA / SDWA
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.				
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	Analysis and Method			RCRA
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502				
Phone: 832-541-7719	Email: jim.raley@dvn.com				State
Email: Devon-team@etechenv.com	WBS/WO: ~~TBD~~ GM 21169911				NM / CO / UT / AZ / TX
Collected by: Edyte Konan	Incident ID: ~~nAB1702749185~~ GM nAPP2315142829				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX		Remarks
10:00	6/20/2023	S	1	PH01	1	0.5'								X				
10:10	6/20/2023	S	1	PH01	2	2'								X				
10:20	6/20/2023	S	1	PH02	3	0.5'								X				
10:30	6/20/2023	S	1	PH02	4	4'								X				
10:40	6/20/2023	S	1	PH03	5	0.5'								X				
10:50	6/20/2023	S	1	PH03	6	1'								X				
11:00	6/20/2023	S	1	PH04	7	0.5'								X				
11:10	6/20/2023	S	1	PH04	8	1'								X				
11:20	6/20/2023	S	1	PH05	9	0.5'								X				
11:30	6/20/2023	S	1	PH05	10	1'								X				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: EK

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6.20.23	1515	Michelle Gonzales	6.20.23	1515
Michelle Gonzales	6.20.23	1700	[signature]	6-20-23	1700
[signature]	6-20-23	2230	[signature]	6/21/23	1000

Lab Use Only

Received on ice: (Y) / N

T1 ______ T2 ______ T3 ______

AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other ______

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, **v** - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Client: WPX Energy Permian LLC.	**Bill To**
Project: RDU 12	Attention: Jim Raley
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502
Phone: 832-541-7719	Email: jim.raley@dvn.com
Email: Devon-team@etechenv.com	WBS/WO: ~~TBD~~ 21169911
Collected by: Edyte Konan	Incident ID: ~~nAB1702749185~~ nAPP2315142829

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E306160	01058-0007				5 day TAT		
							RCRA

State: NM | CO | UT | AZ | TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
11:40	6/20/2023	S	1	PH06	11	0.5'						X		
11:50	6/20/2023	S	1	PH06	12	1'						X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: EK

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6.20.23	1515	[signature]	6-20-23	1515
[signature]	6-20-23	1700	Andrew Russo	6-20-23	1700
Andrew Russo	6-20-23	2230	[signature]	6/21/23	1000

Lab Use Only
Received on ice: (Y) N
T1 ____ T2 ____ T3 ____
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ____
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above

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Envirotech Analytical Laboratory

Printed: 6/21/2023 12:09:10PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	06/21/23 10:00	Work Order ID:	E306160
Phone:	(539) 573-4018	Date Logged In:	06/21/23 11:52	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/27/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Incident ID: nAPP2315142829 & nHMP1407325518 Added per. G. Moreno [initials] 8/21/23

Client: WPX Energy Permian LLC.	Bill To	Lab Use Only		TAT	EPA Program
Project: RDU 12	Attention: Jim Raley	Lab WO#: E306160	Job Number: 01058-0007	1D / 2D / 3D / Standard: 5 day TAT	CWA / SDWA
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.				RCRA
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220				State: NM / CO / UT / AZ / TX
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502				
Phone: 832-541-7719	Email: jim.raley@dvn.com				
Email: Devon-team@etechenv.com	WBS/WO: ~~TBD~~ GL 21169911				
Collected by: Edyte Konan	~~Incident ID: nAB1702749185~~ GL ~~nAPP2315142829~~				

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX		Remarks
10:00	6/20/2023	S	1	PH01	1	0.5'								X				
10:10	6/20/2023	S	1	PH01	2	2'								X				
10:20	6/20/2023	S	1	PH02	3	0.5'								X				
10:30	6/20/2023	S	1	PH02	4	4'								X				
10:40	6/20/2023	S	1	PH03	5	0.5'								X				
10:50	6/20/2023	S	1	PH03	6	1'								X				
11:00	6/20/2023	S	1	PH04	7	0.5'								X				
11:10	6/20/2023	S	1	PH04	8	1'								X				
11:20	6/20/2023	S	1	PH05	9	0.5'								X				
11:30	6/20/2023	S	1	PH05	10	1'								X				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: EK

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6.20.23	1515	Michelle Gonzales [signature]	6.20.23	1515
Michelle Gonzales [signature]	6.20.23	1700	Andrew Musso [signature]	6-20-23	1700
Andrew Musso [signature]	6-20-23	2230	[signature]	6/21/23	1000

Lab Use Only

Received on ice: (Y) / N

T1 ______ T2 ______ T3 ______

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ______

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Report to:

Gilbert Moreno

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	RDU 12
Work Order:	E307176
Job Number:	01058-0007
Received:	7/31/2023

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/22/23

Date Reported: 8/22/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDU 12
Workorder: E307176
Date Received: 7/31/2023 7:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/31/2023 7:15:00AM, under the Project Name: RDU 12.

The analytical test results summarized in this report with the Project Name: RDU 12 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDU 12	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/22/23 13:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 0.5-2'	E307176-01A	Soil	07/28/23	07/31/23	Glass Jar, 2 oz.
FS02 0.5-2'	E307176-02A	Soil	07/28/23	07/31/23	Glass Jar, 2 oz.
FS03 0.5-2'	E307176-03A	Soil	07/28/23	07/31/23	Glass Jar, 2 oz.
FS04 0.5-2'	E307176-04A	Soil	07/28/23	07/31/23	Glass Jar, 2 oz.
FS05 0.5-2'	E307176-05A	Soil	07/28/23	07/31/23	Glass Jar, 2 oz.
FS06 0.5-2'	E307176-06A	Soil	07/28/23	07/31/23	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/22/2023 1:56:44PM

FS01 0.5-2'

E307176-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
o-Xylene	ND	0.0250	1	07/31/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.4 %*	*70-130*	*07/31/23*	*08/01/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.8 %*	*70-130*	*07/31/23*	*08/01/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2331016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	08/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	08/02/23	
Surrogate: n-Nonane		*94.8 %*	*50-200*	*07/31/23*	*08/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2331010
Chloride	ND	200	10	07/31/23	08/02/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/22/2023 1:56:44PM

FS02 0.5-2'

E307176-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
o-Xylene	ND	0.0250	1	07/31/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.6 %*	*70-130*	*07/31/23*	*08/01/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.6 %*	*70-130*	*07/31/23*	*08/01/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2331016
Diesel Range Organics (C10-C28)	**105**	25.0	1	07/31/23	08/02/23	
Oil Range Organics (C28-C36)	**69.2**	50.0	1	07/31/23	08/02/23	
Surrogate: n-Nonane		*95.8 %*	*50-200*	*07/31/23*	*08/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2331010
Chloride	**212**	200	10	07/31/23	08/02/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/22/2023 1:56:44PM

FS03 0.5-2'

E307176-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
o-Xylene	ND	0.0250	1	07/31/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.5 %*	*70-130*	*07/31/23*	*08/01/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.8 %*	*70-130*	*07/31/23*	*08/01/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2331016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	08/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	08/02/23	
Surrogate: n-Nonane		*98.3 %*	*50-200*	*07/31/23*	*08/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2331010
Chloride	ND	200	10	07/31/23	08/02/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/22/2023 1:56:44PM

FS04 0.5-2'

E307176-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
o-Xylene	ND	0.0250	1	07/31/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.4 %*	*70-130*	*07/31/23*	*08/01/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*07/31/23*	*08/01/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2331016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	08/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	08/02/23	
Surrogate: n-Nonane		*94.8 %*	*50-200*	*07/31/23*	*08/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2331010
Chloride	ND	200	10	07/31/23	08/02/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/22/2023 1:56:44PM

FS05 0.5-2'

E307176-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
o-Xylene	ND	0.0250	1	07/31/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.5 %*	*70-130*	*07/31/23*	*08/01/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.7 %*	*70-130*	*07/31/23*	*08/01/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2331016
Diesel Range Organics (C10-C28)	**212**	25.0	1	07/31/23	08/02/23	
Oil Range Organics (C28-C36)	**146**	50.0	1	07/31/23	08/02/23	
Surrogate: n-Nonane		*98.6 %*	*50-200*	*07/31/23*	*08/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2331010
Chloride	**381**	200	10	07/31/23	08/02/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/22/2023 1:56:44PM

FS06 0.5-2'

E307176-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
o-Xylene	ND	0.0250	1	07/31/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.2 %*	*70-130*	*07/31/23*	*08/01/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.7 %*	*70-130*	*07/31/23*	*08/01/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2331016
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	08/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	08/02/23	
Surrogate: n-Nonane		*96.7 %*	*50-200*	*07/31/23*	*08/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2331010
Chloride	ND	200	10	07/31/23	08/03/23	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDU 12	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/22/2023 1:56:44PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2331002-BLK1)									Prepared: 07/31/23 Analyzed: 07/31/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.73*		*8.00*		*96.6*	*70-130*			
LCS (2331002-BS1)									Prepared: 07/31/23 Analyzed: 07/31/23
Benzene	5.19	0.0250	5.00		104	70-130			
Ethylbenzene	5.16	0.0250	5.00		103	70-130			
Toluene	5.23	0.0250	5.00		105	70-130			
o-Xylene	5.17	0.0250	5.00		103	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.7	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.87*		*8.00*		*98.4*	*70-130*			
Matrix Spike (2331002-MS1)				**Source: E307174-02**					Prepared: 07/31/23 Analyzed: 07/31/23
Benzene	5.03	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.7	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	4.99	0.0250	5.00	ND	99.8	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.79*		*8.00*		*97.4*	*70-130*			
Matrix Spike Dup (2331002-MSD1)				**Source: E307174-02**					Prepared: 07/31/23 Analyzed: 07/31/23
Benzene	4.94	0.0250	5.00	ND	98.7	54-133	1.82	20	
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	61-133	1.54	20	
Toluene	4.98	0.0250	5.00	ND	99.5	61-130	1.55	20	
o-Xylene	4.93	0.0250	5.00	ND	98.5	63-131	1.32	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	1.31	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.7	63-131	1.32	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.89*		*8.00*		*98.6*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDU 12	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/22/2023 1:56:44PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2331002-BLK1)									Prepared: 07/31/23 Analyzed: 07/31/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.48*		*8.00*		*93.5*	*70-130*			
LCS (2331002-BS2)									Prepared: 07/31/23 Analyzed: 08/01/23
Gasoline Range Organics (C6-C10)	52.8	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.17*		*8.00*		*89.6*	*70-130*			
Matrix Spike (2331002-MS2)				**Source: E307174-02**					Prepared: 07/31/23 Analyzed: 07/31/23
Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.44*		*8.00*		*93.0*	*70-130*			
Matrix Spike Dup (2331002-MSD2)				**Source: E307174-02**					Prepared: 07/31/23 Analyzed: 07/31/23
Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	ND	110	70-130	0.677	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.58*		*8.00*		*94.7*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDU 12	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/22/2023 1:56:44PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2331016-BLK1)									Prepared: 07/31/23 Analyzed: 08/02/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*50.8*		*50.0*		*102*	*50-200*			
LCS (2331016-BS1)									Prepared: 07/31/23 Analyzed: 08/02/23
Diesel Range Organics (C10-C28)	280	25.0	250		112	38-132			
Surrogate: n-Nonane	*51.7*		*50.0*		*103*	*50-200*			
Matrix Spike (2331016-MS1)				**Source: E307182-03**					Prepared: 07/31/23 Analyzed: 08/02/23
Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	*47.1*		*50.0*		*94.3*	*50-200*			
Matrix Spike Dup (2331016-MSD1)				**Source: E307182-03**					Prepared: 07/31/23 Analyzed: 08/02/23
Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	38-132	4.15	20	
Surrogate: n-Nonane	*44.3*		*50.0*		*88.7*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDU 12	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/22/2023 1:56:44PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2331010-BLK1)									Prepared: 07/31/23 Analyzed: 07/31/23
Chloride	ND	20.0							
LCS (2331010-BS1)									Prepared: 07/31/23 Analyzed: 07/31/23
Chloride	261	20.0	250		104	90-110			
Matrix Spike (2331010-MS1)				**Source: E307166-01**					Prepared: 07/31/23 Analyzed: 07/31/23
Chloride	333	200	250	ND	133	80-120			M5
Matrix Spike Dup (2331010-MSD1)				**Source: E307166-01**					Prepared: 07/31/23 Analyzed: 07/31/23
Chloride	292	200	250	ND	117	80-120	12.9	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/22/23 13:56

M5	The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Client: WPX Energy Permian LLC.	Bill To	Lab Use Only	TAT				EPA Program	
Project: RDU 12	Attention: Jim Raley	Lab WO# E307176	Job Number 01058-0007	1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.						5 day TAT		
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	Analysis and Method							RCRA
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502								
Phone: (832) 541-7719	Email: jim.raley@dvn.com							State	
Email: Devon-team@etechenv.com	WO: 21169911							NM CO UT AZ TX	
Collected by: Edyte Konan	Incident ID: nAPP2315142829								

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX		Remarks
13:00	7/28/2023	S	1	FS01	1	0.5-2								X				
13:10	7/28/2023	S	1	FS02	2	0.5-2								X				
13:20	7/28/2023	S	1	FS03	3	0.5-2								X				
13:30	7/28/2023	S	1	FS04	4	0.5-2								X				
13:40	7/28/2023	S	1	FS05	5	0.5-2								X				
13:50	7/28/2023	S	1	FS06	6	0.5-2								X				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	07/28/2023	10:00	Michelle Gonzales	7.28.23	1000
Michelle Gonzales	7-28-23	1700	Andrew MASSO	7.28.23	1730
Andrew MASSO	7.29.23	2400	Caitlin Man	7/31/23	7:15

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 7/31/2023 8:57:41AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	07/31/23 07:15	Work Order ID:	E307176
Phone:	(539) 573-4018	Date Logged In:	07/28/23 15:48	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	08/04/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

IncidentID: nAPP2315142829 $ nHMP1407325518 Add per. G.Moreno 8/21/23

Client: WPX Energy Permian LLC.	Bill To	Lab Use Only		TAT	EPA Program
Project: RDU 12	Attention: Jim Raley	Lab WO# E307176	Job Number 01058-0007	1D / 2D / 3D / Standard: 5 day TAT	CWA / SDWA
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.				RCRA
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	Analysis and Method			State: NM / CO / UT / AZ / TX
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502				
Phone: (832) 541-7719	Email: jim.raley@dvn.com				
Email: Devon-team@etechenv.com	WO: 21169911				
Collected by: Edyte Konan	~~Incident ID: nAPP2315142829~~				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX		Remarks
13:00	7/28/2023	S	1	FS01	1	0.5-2'								X				
13:10	7/28/2023	S	1	FS02	2	0.5-2'								X				
13:20	7/28/2023	S	1	FS03	3	0.5-2'								X				
13:30	7/28/2023	S	1	FS04	4	0.5-2'								X				
13:40	7/28/2023	S	1	FS05	5	0.5-2'								X				
13:50	7/28/2023	S	1	FS06	6	0.5-2'								X				

Additional Instructions:
Add tickmark in report to represent each sample depth as follows: (FS01 through FS06 @ 0.5-2') Per G. Moreno

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
[signature]	07/28/2023	10:00	Michelle Gonzales	7-28-23	1000	Received on ice: (Y) / N
Michelle Gonzales	7-28-23	1700	Adrian M.	7.28.23	1730	T1 T2 T3
Adrian M.	7.29.23	2400	Caitlin Man	7/31/23	7:15	AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Report to:

Gilbert Moreno

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	RDU 12
Work Order:	E307177
Job Number:	01058-0007
Received:	7/31/2023

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/21/23

Date Reported: 8/21/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDU 12
Workorder: E307177
Date Received: 7/31/2023 7:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/31/2023 7:15:00AM, under the Project Name: RDU 12.

The analytical test results summarized in this report with the Project Name: RDU 12 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
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Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDU 12	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/21/23 15:16

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 0-2'	E307177-01A	Soil	07/28/23	07/31/23	Glass Jar, 2 oz.
SW02 0-2'	E307177-02A	Soil	07/28/23	07/31/23	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:16:45PM

SW01 0-2'

E307177-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
o-Xylene	ND	0.0250	1	07/31/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.3 %*	*70-130*	*07/31/23*	*08/01/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.8 %*	*70-130*	*07/31/23*	*08/01/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2331014
Diesel Range Organics (C10-C28)	ND	25.0	1	08/01/23	08/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/23	08/02/23	
Surrogate: n-Nonane		*104 %*	*50-200*	*08/01/23*	*08/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2331011
Chloride	ND	200	10	07/31/23	07/31/23	

Sample Data

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:16:45PM

SW02 0-2'

E307177-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2331002
Benzene	ND	0.0250	1	07/31/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/31/23	08/01/23	
Toluene	ND	0.0250	1	07/31/23	08/01/23	
o-Xylene	ND	0.0250	1	07/31/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/31/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/31/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.3 %*	*70-130*	*07/31/23*	*08/01/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2331002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.3 %*	*70-130*	*07/31/23*	*08/01/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2331014
Diesel Range Organics (C10-C28)	ND	25.0	1	08/01/23	08/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/23	08/02/23	
Surrogate: n-Nonane		*105 %*	*50-200*	*08/01/23*	*08/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2331011
Chloride	ND	200	10	07/31/23	07/31/23	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDU 12	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:16:45PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2331002-BLK1)									Prepared: 07/31/23 Analyzed: 07/31/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.73*		*8.00*		*96.6*	*70-130*			
LCS (2331002-BS1)									Prepared: 07/31/23 Analyzed: 07/31/23
Benzene	5.19	0.0250	5.00		104	70-130			
Ethylbenzene	5.16	0.0250	5.00		103	70-130			
Toluene	5.23	0.0250	5.00		105	70-130			
o-Xylene	5.17	0.0250	5.00		103	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.7	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.87*		*8.00*		*98.4*	*70-130*			
Matrix Spike (2331002-MS1)				**Source: E307174-02**					Prepared: 07/31/23 Analyzed: 07/31/23
Benzene	5.03	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.7	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	4.99	0.0250	5.00	ND	99.8	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.79*		*8.00*		*97.4*	*70-130*			
Matrix Spike Dup (2331002-MSD1)				**Source: E307174-02**					Prepared: 07/31/23 Analyzed: 07/31/23
Benzene	4.94	0.0250	5.00	ND	98.7	54-133	1.82	20	
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	61-133	1.54	20	
Toluene	4.98	0.0250	5.00	ND	99.5	61-130	1.55	20	
o-Xylene	4.93	0.0250	5.00	ND	98.5	63-131	1.32	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	1.31	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.7	63-131	1.32	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.89*		*8.00*		*98.6*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDU 12	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:16:45PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2331002-BLK1)									Prepared: 07/31/23 Analyzed: 07/31/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.48*		*8.00*		*93.5*	*70-130*			
LCS (2331002-BS2)									Prepared: 07/31/23 Analyzed: 08/01/23
Gasoline Range Organics (C6-C10)	52.8	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.17*		*8.00*		*89.6*	*70-130*			
Matrix Spike (2331002-MS2)				**Source: E307174-02**					Prepared: 07/31/23 Analyzed: 07/31/23
Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.44*		*8.00*		*93.0*	*70-130*			
Matrix Spike Dup (2331002-MSD2)				**Source: E307174-02**					Prepared: 07/31/23 Analyzed: 07/31/23
Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	ND	110	70-130	0.677	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.58*		*8.00*		*94.7*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDU 12	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:16:45PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2331014-BLK1)									Prepared: 08/01/23 Analyzed: 08/01/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*58.5*		*50.0*		*117*	*50-200*			
LCS (2331014-BS1)									Prepared: 08/01/23 Analyzed: 08/01/23
Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132			
Surrogate: n-Nonane	*51.0*		*50.0*		*102*	*50-200*			
Matrix Spike (2331014-MS1)				**Source: E307166-01**					Prepared: 08/01/23 Analyzed: 08/01/23
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	*48.2*		*50.0*		*96.5*	*50-200*			
Matrix Spike Dup (2331014-MSD1)				**Source: E307166-01**					Prepared: 08/01/23 Analyzed: 08/01/23
Diesel Range Organics (C10-C28)	254	25.0	250	ND	101	38-132	2.66	20	
Surrogate: n-Nonane	*49.9*		*50.0*		*99.8*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDU 12	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	8/21/2023 3:16:45PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2331011-BLK1)							Prepared: 07/31/23 Analyzed: 07/31/23		
Chloride	ND	20.0							
LCS (2331011-BS1)							Prepared: 07/31/23 Analyzed: 07/31/23		
Chloride	264	20.0	250		105	90-110			
Matrix Spike (2331011-MS1)				**Source: E307177-01**			Prepared: 07/31/23 Analyzed: 07/31/23		
Chloride	358	200	250	ND	143	80-120			M5
Matrix Spike Dup (2331011-MSD1)				**Source: E307177-01**			Prepared: 07/31/23 Analyzed: 07/31/23		
Chloride	282	200	250	ND	113	80-120	23.7	20	R2

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	RDU 12	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	08/21/23 15:16

M5	The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.
R2	The RPD exceeded the acceptance limit.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Client: WPX Energy Permian LLC.	Bill To	Lab Use Only	TAT	EPA Program
Project: RDU 12	Attention: Jim Raley	Lab WO# E307177 / Job Number 01058-0007	1D 2D 3D Standard: 5 day TAT	CWA SDWA RCRA
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.			
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220			
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502			
Phone: (832) 541-7719	Email: jim.raley@dvn.com			
Email: Devon-team@etechenv.com	WO: 21169911			State: NM CO UT AZ TX
Collected by: Edyte Konan	Incident ID: nAPP2315142829			

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX		Remarks
14:00	7/28/2023	S	1	SW01	1	0-2'								X				
14:10	7/28/2023	S	1	SW02	2	0-2'								X				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	07/28/2023	10:00	Michelle Gonzales	7.28.23	1000
Michelle Gonzales	7.28.23	1700		7.28.23	1730
	7.29.23	2400	Cartha Mann	7/31/23	7:15

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 7/31/2023 9:01:02AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	07/31/23 07:15	Work Order ID:	E307177
Phone:	(539) 573-4018	Date Logged In:	07/28/23 15:52	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	08/04/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Project Information | Chain of Custody | Page 1 of 1

Incident ID: nAPP2315142829 & nHMP1407325518 Add per G. Moreno 8/2/23

Client: WPX Energy Permian LLC.	
Project: RDU 12	
Project Manager: Gilbert Moreno	
Address: 13000 W County Rd 100	
City, State, Zip_Odessa,TX, 79765	
Phone: (832) 541-7719	
Email: Devon-team@etechenv.com	
Collected by: Edyte Konan	

Bill To

Attention: Jim Raley
Address: 5315 Buena Vista Dr.
City, State, Zip: Carlsbad, NM, 88220
Phone: 575-885-7502
Email: jim.raley@dvn.com
WO: 21169911
~~Incident ID: nAPP2315142829~~

Lab Use Only

Lab WO# E30717 | Job Number 01058-0007

TAT

1D | 2D | 3D | Standard: 5 day TAT

EPA Program

CWA | SDWA | RCRA

State

NM | CO | UT | AZ | TX

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX		Remarks
14:00	7/28/2023	S	1	SW01	1	0-2'								X				
14:10	7/28/2023	S	1	SW02	2	0-2'								X				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	07/28/2023	10:00	Michelle Gonzales	7.28.23	1000
Michelle Gonzales	7.28.23	1700	[signature]	7.28.23	1730
[signature]	7.29.23	2400	Cartha Man	7/31/23	7:15

Lab Use Only
Received on ice: (Y) / N
T1 | T2 | T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

APPENDIX G

NMOCD Notifications

Erick Herrera

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Thursday, June 15, 2023 8:35 AM
To: Raley, Jim
Cc: Devon-Team; Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD
Subject: (Extension Approval) - RDU 12 Extension Requests - Incident Numbers nHMP1407235518 and nAPP2315142829

RE: Incident #**NHMP1407325518 and NAPP2315142829**

Jim,

Your request for an extension to **September 28th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Raley, Jim <Jim.Raley@dvn.com>
Sent: Wednesday, June 14, 2023 1:57 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] RDU 12 Extension Requests - Incident Numbers nHMP1407235518 and nAPP2315142829

Robert,

WPX Energy Permian, LLC (WPX) is requesting an extension to the current deadline for reports required in 19.15.29.12.B.(1) NMAC at the Ross Draw #012 (Site).

Two crude oil and produced water releases were discovered between March 5, 2014, and January 11, 2017, and subsequently assigned Incident Number nHMP1407235518 and nAB1702749185, respectively. NMOCD recently denied a closure report associated with both inadvertent releases on March 29, 2023, due to inadequate depth to groundwater data. As a result, NMOCD set a new due date for a subsequent report for June 30, 2023. Currently, there is new soil boring data to support the depth to groundwater determination at the Site. However, an additional inadvertent release of release of produced water occurred on May 15, 2023 (nAPP2315142829) and overlapped the same earthen

containment impacted by nHMP1407235518, therefore additional investigation is warranted to determine the presence or absence of impacts. Incident Number nAB1702749185 occurred in a separate location, therefore, a closure addendum will be submitted to address the denial.

To provide enough time for additional planning, remediation activities and subsequent corrective action report, WPX requests an extension of the deadline for the two overlapping releases associated with Incident Number nHMP1407235518 and nAPP2315142829 to September 28, 2023.

Jim Raley | Environmental Professional - Permian Basin
5315 Buena Vista Dr., Carlsbad, NM 88220
C: (575)689-7597 | jim.raley@dvn.com

Erick Herrera

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Friday, June 16, 2023 3:37 PM
To: Erick Herrera
Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (6/20 - 6/23)

Erick,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// **www.emnrd.nm.gov**

From: Erick Herrera <erick@etechenv.com>
Sent: Thursday, June 15, 2023 3:14 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov
Cc: Raley, Jim <jim.raley@dvn.com>; Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] WPX Site Sampling Activity Update (6/20 - 6/23)

WPX anticipates conducting confirmation soil sampling activities at the following sites between June 20 – June 23, 2023:

Site Name: North Brushy PW Line
Incident Numbers: nAPP2231126594 & nAPP2312845934

Site Name: RDX 9#004
Incident Number: nAB1803254347
API: 30-015-40180

Site Name: RDX Federal COM 28 #009H
Incident Number: nAB1632648516
API: 30-015-43294

Site Name: Holly A Federal #006

Incident Number: nAPP2116548791
API: 30-015-25331

Site Name: Ross Draw #012
Incident Numbers: nHMP1407235518 and nAPP2315142829
API: 30-015-24793

Thank you,

Erick Herrera
Staff Geologist

eTECH Environmental & Safety Solutions, Inc.

Work: (432) 305-6416
Cell: (281) 777-4152

Erick Herrera

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, July 24, 2023 2:27 PM
To: Erick Herrera
Cc: Bratcher, Michael, EMNRD; Maxwell, Ashley, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (7/27 - 7/28)

Good afternoon Erick,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Administrative Permitting Program
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Erick Herrera <erick@etechenv.com>
Sent: Monday, July 24, 2023 9:30 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov
Cc: Raley, Jim <jim.raley@dvn.com>; Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] WPX Site Sampling Activity Update (7/27 - 7/28)

Good morning,

WPX anticipates conducting confirmation soil sampling activities at the following site between July 27 through July 28, 2023:

Proposed Date: July 27, 2023 & July 28, 2023,
Proposed Timeframe: 0800 – 1700 hrs.
Site Name: Ross Draw #012
Incident Numbers: nHMP1407325518 (2RP-2211) & nAPP2315142829
API: 30-015-24793

Thank you,

Erick Herrera

Staff Geologist

eTECH Environmental & Safety Solutions, Inc.

Work: (432) 305-6416
Cell: (281) 777-4152

APPENDIX H

Original Closure Request

March 26, 2020
Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210

Re: Ross Draw Unit #12 Release Closure Request (2RP-2211 & 2RP-4095)

Mr. Bratcher,

The attached report summarizes the sampling activities at the Ross Draw Unit (RDU) #12 well pad. WPX requests no further action be taken until the reclamation of the Pad. Please contact me with any questions or concerns.

Best regards,

Lynda Laumbach
Environmental Specialist

CC: Robert Hamlet, NMOCD
Victoria Venegas, NMOCD

Attachments:
Attachment 01 Site Characterization Report & Soil Closure Report

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

State of New Mexico
Energy Minerals and Natural Resources

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

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MAR 06 2014
NMOCD ARTESIA

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

nHMP1407325518 246289 **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company RKI EXPLORATION & PRODUCTION	Contact HEATHER BREHM
Address 210 PARK AVE, STE 900, OKC, OK 73102	Telephone No. 405-996-5769
Facility Name ROSS DRAW 12	Facility Type POW

Surface Owner	Mineral Owner	API No. 30-015-24793

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	33	26S	30E	467'	NORTH	660'	EAST	EDDY

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release OIL/WATER	Volume of Release 15 BBLS	Volume Recovered 0 BBLS
Source of Release TRANSFER PUMP	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom? 2-25-14 UKN TIME	BLM DISCOVERED 3/5/14 @ 9:00 AM
By Whom? M. BALLIET, BLM	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
WATER TANK RAN OVER, TRANSFER PUMP OVERLOAD

Describe Area Affected and Cleanup Action Taken.*
SPILL WAS CONTAINED IN DIRT CONTAINMENT; DYKE

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

Signature: Heather Brehm
Printed Name: Heather Brehm
Title: Regulatory Analyst
E-mail Address: hbrehm@rkixp.com
Date: 3/06/2014 Phone: 405-996-5769

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 3-14-14 Expiration Date: NA

Conditions of Approval:
Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:
4-14-14

Attached ☐

2RP 2211

* Attach Additional Sheets If Necessary

State of New Mexico
Oil Conservation Division

Incident ID	2RP-2211
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	2RP-2211
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: 03/26/2020

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

OCD Only

Received by: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	2RP-2211
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Lynda Laumbach Title: Environmental Specialist

Signature: Lynda Laumbach Date: 03/26/2020

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

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Site Characterization Report & Soil Closure Request

WPX Energy, Inc.
RDU 12
Eddy County, New Mexico
Unit Letter A, Section 33, Township 26 South, Range 30 East
Latitude 32.004760 North, Longitude 103.879775 West
NMOCD Reference No. 2RP-2211 & 2RP-4095

Prepared By:

Etech Environmental & Safety Solutions, Inc.
13000 W County Road 100
Odessa, TX 79765

Joseph S. Hernandez - Project Manager

Intentional Blank

ETECH Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Lovington • Lafayette

TABLE OF CONTENTS

1.0 PROJECT INFORMATION (2RP-2211)

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy, Inc, has prepared this Site Characterization Report and Soil Closure Report for the Release Site Known as the Ross Draw 12. Details of the release are summarized below:

Location of Release Source

Latitude: 32.004760 Longitude: -103.8797758

Provided GPS are in WGS84 format.

Site Name:	ROSS DRAW 12	Site Type:	Wellhead
Date Release Discovered:	2/25/2014	API # (if applicable):	30-015-24793

Unit Letter	Section	Township	Range	County
A	33	26S	30E	Eddy

Surface Owner: [ ] State [X] Federal [ ] Tribal [ ] Private (Name _____)

Nature and Volume of Release

[X] Crude Oil [X] Produced Water	Volume Released (bbls) 15	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	[ ] Yes [ ] No [X] N/A
[ ] Condensate	Volume Released (bbls)	Volume Recovered (bbls)
[ ] Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
[ ] Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:
This release was caused by a transfer pump overload, resulting in the water tank to overflow.

Initial Response

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

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

1.0A PROJECT INFORMATION (2RP-4095)

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy, Inc, has prepared this Site Characterization Report and Soil Closure Report for the Release Site Known as the RDU 12. Details of the release are summarized below:

Location of Release Source

Latitude: 32.004760 Longitude: -103.8797758

Provided GPS are in WGS84 format.

Site Name:	RDU 12	Site Type:	Wellhead
Date Release Discovered:	1/11/2017	API # (if applicable):	30-015-24793

Unit Letter	Section	Township	Range	County
A	33	26S	30E	Eddy

Surface Owner: [ ] State [X] Federal [ ] Tribal [ ] Private (Name _____)

Nature and Volume of Release

[X] Crude Oil [X] Produced Water	Volume Released (bbls) 12	Volume Recovered (bbls) 4.5
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	[ ] Yes [ ] No [X] N/A
[ ] Condensate	Volume Released (bbls)	Volume Recovered (bbls)
[ ] Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
[ ] Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:
This release was caused by human error; stuffing box failure. The spill migrated west of the pad, entered a dry drainage and migrated for about 100 yards.

Initial Response

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

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION (2RP-2211)

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100' bgs
Did the 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 any 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	☐ 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 the 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

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figure 2.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release			
Probable Depth to Groundwater	**Constituent**	**Method**	**Limit**
>100' bgs	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

2.0A SITE CHARACTERIZATION (2RP-4095)

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

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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	☐ Yes ☒ No
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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

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figure 2.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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Closure Criteria for Soil Impacted by a Release			
Probable Depth to Groundwater	**Constituent**	**Method**	**Limit**
>100' bgs	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

4.0 REMEDIATION ACTIVITIES SUMMARY

On **January 15, 2020,** Etech personnel conducted initial site assessments for **two (2)** releases, **2RP-2211** and **2RP-4095**, that occurred at the RDU 12 Site in Eddy County, NM. The assessments consisted of generating a footprint via GPS receiver of the aforementioned releases and photo documentation of the current Site conditions. Based on visual observation, approximately **eight hundred and nineteen (819)** square feet of surface area was impacted from the release assigned **2RP-2211**; approximately **five thousand and fifty-three (5,053)** square feet of surface area was impacted from the release assigned **2RP-4095**. Between **January 22, 2020** and **February 25, 2020**, a series of test trenches and/or hand-augered soil bores were advanced within the release footprints in an effort to define the vertical and horizontal extent of impacted soil. Field soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing a Photoionization Detector (PID) and concentrations of chloride utilizing a Hach Quantab ® chloride test kit. A "Site & Sample Location Map" is provided as Figure 3 **(2RP-2211)** and Figure 3A **(2RP-4095)**. Field data and soil profile logs, if applicable, are provided as Appendix B.

Based on field observations and field test data associated with **2RP-2011**, **thirteen (13)** delineation soil samples (TT1@2', TT1@4', TT2@2', TT2@4', AH1@2', AH1@4', AH1@6', AH2@2', AH2@4', AH3@2', AH3@4', AH4@2' and AH4@4) were relinquished to an accredited laboratory for analysis of BTEX, TPH and Chloride concentrations. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C.

Based on field observations and field test data associated with **2RP-4095**, **twenty (20)** delineation soil samples (TT1@2', TT1@12', TT2@2', TT2@4', TT3@2', TT3@4', AH1@2', AH1@4', AH2@2', AH2@4', AH3@2', AH3@4', AH4@2', AH4@4', AH5@2', AH5@4', AH6@2', AH6@4', AH7@2' and AH7@4') were relinquished to an accredited laboratory for analysis of BTEX, TPH and Chloride concentrations. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C.

Based on laboratory analytical data, soil within the affected areas associated with **2RP-2211** and **2RP-4095** yielded concentrations below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard, therefore the soil has not been excavated from the affected areas.

5.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Laboratory analytical results from soil samples collected during delineation events indicated remediation was not required, therefore the affected area was left in-situ and not altered. Vegetation within the affected area will be monitored and may be reseeded with an agency-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site, if necessary.

6.0 SOIL CLOSURE REQUEST

Delineation activities were conducted in accordance with applicable NMOCD Regulations. Laboratory analytical from the collected soil samples indicated soil in the affected area(s) was not impacted above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride was below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples.

Based on laboratory analytical results and field activities conducted to date, Etech recommends WPX Energy, Inc. provide copies of this Remediation Summary and Soil Closure Request to the appropriate agencies and request closure be granted to the RDU 12 Site (**2RP-2211 and 2RP-4095**).

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Site Characterization Report and Soil Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Basis has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of WPX Energy, Inc. Use of the information contained in this report is prohibited within the consent of Etech and/or WPX Energy, Inc.

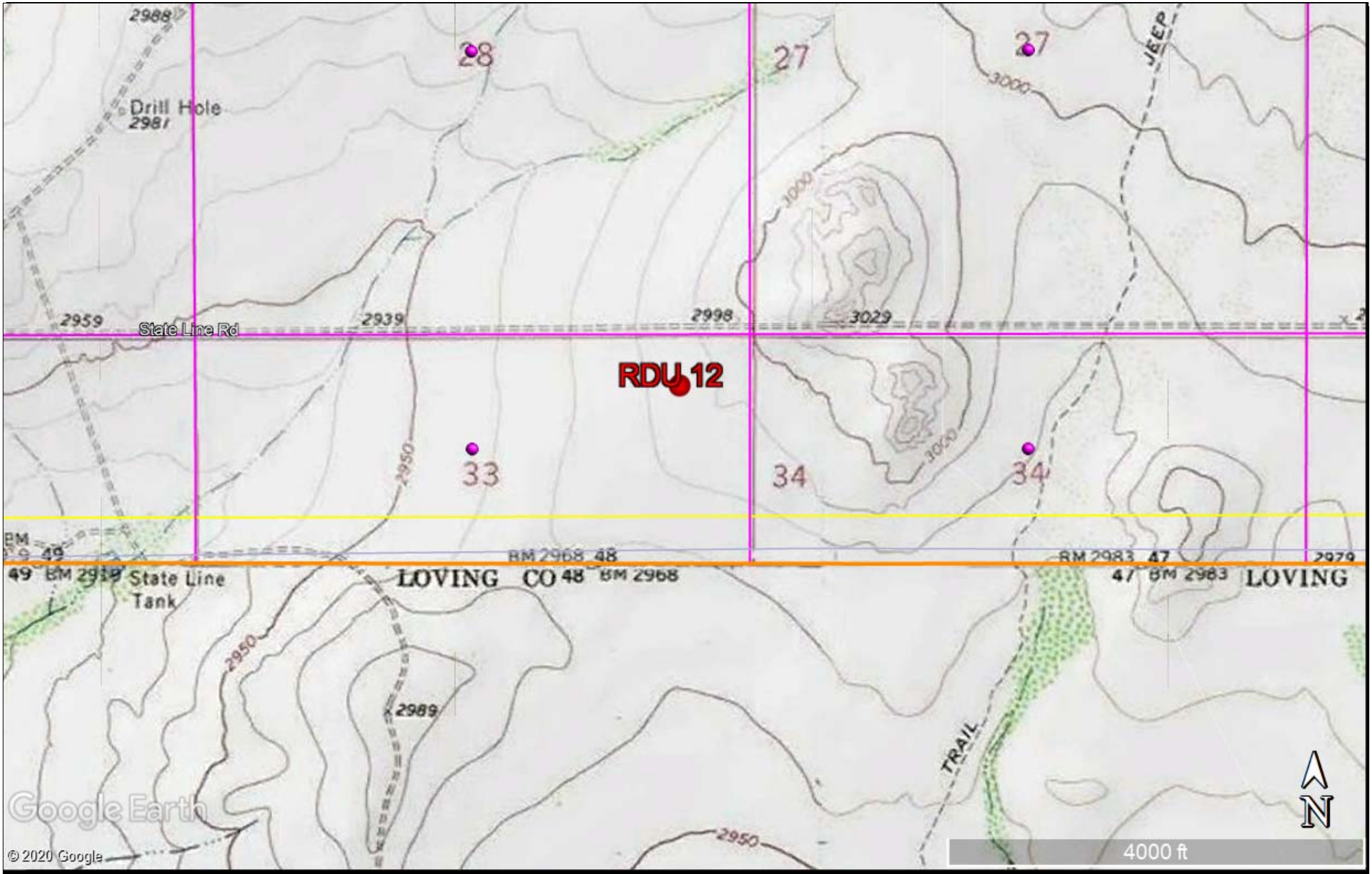
8.0 DISTRIBUTION

WPX Energy, Inc.
5315 Buena Vista Dr.
Carlsbad, NM 88220

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210

(Electronic Submission)

Figure 1
Topographic Map



Legend:

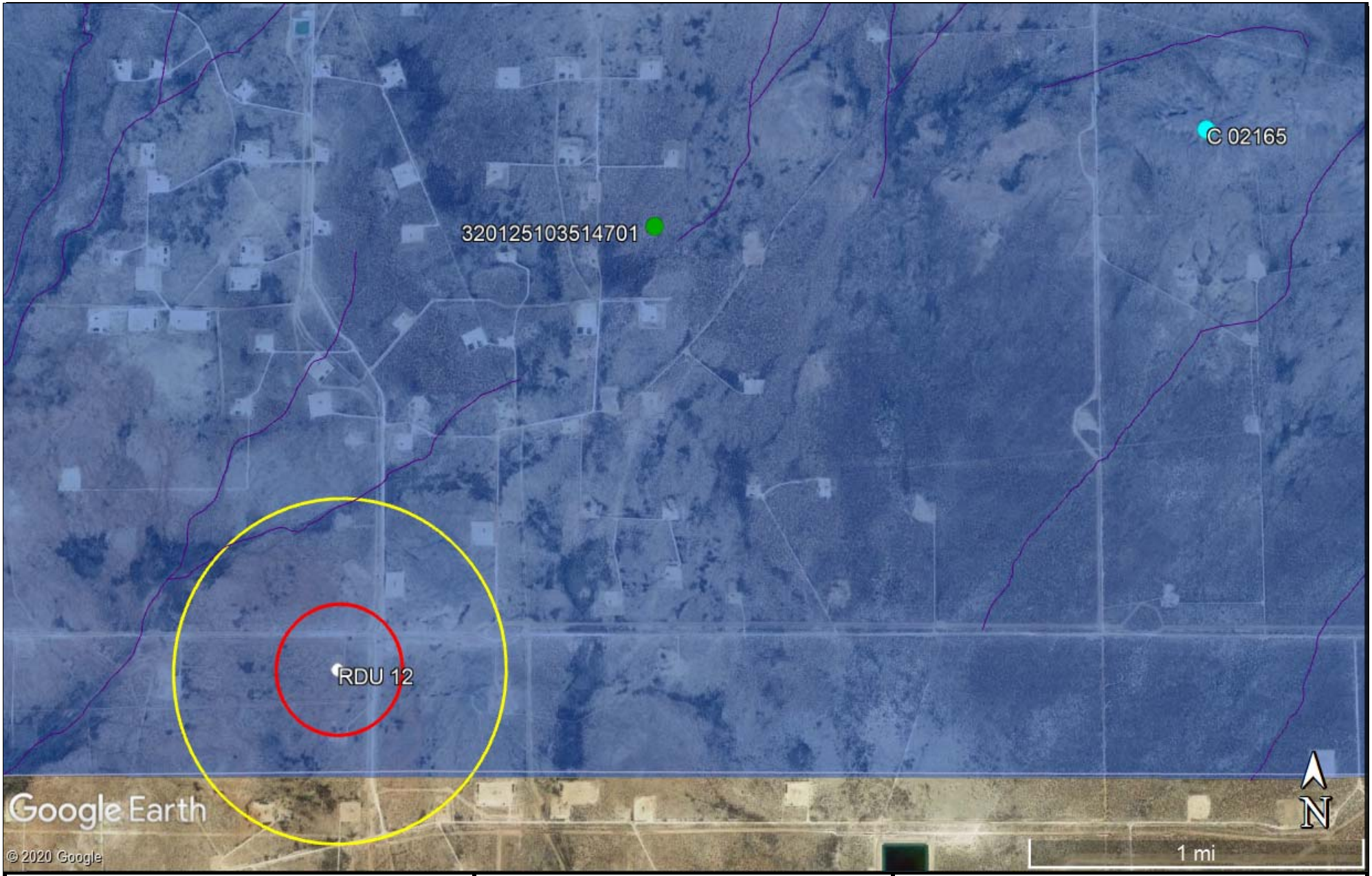
- Site Location

Figure 1
Topographic Map
WPX Energy, Inc.
RDU 12
GPS: 32.004760, -103.8797758
Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: JH Checked: JH Date: 3/2/20

Figure 2
Aerial Proximity Map



Legend:

- Site Location
- 1,000 ft. radius
- 0.5 mi. radius
- Low/Medium Karst zone
- High Karst
- Well - USGS
- Well - NMOSE
- Surface Water
- 1% Annual Flood Chance
- Potash Mine Workings

Figure 2
Aerial Map
WPX Energy, Inc.
RDU 12
GPS: 32.004760, -103.8797758
Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: JH Checked: JH Date: 3/2/20

Figure 3
Site and Sample Location Map

Note: If VOC/hydrocarbon or chloride value is above NMOCD Closure Criteria and/or NMOCD Reclamation Standard , a data box will note concentration exceedances of present analyte.

Legend:

- Delineation Point
- Release outline

Figure 3

Site and Sample Location

RDU 12

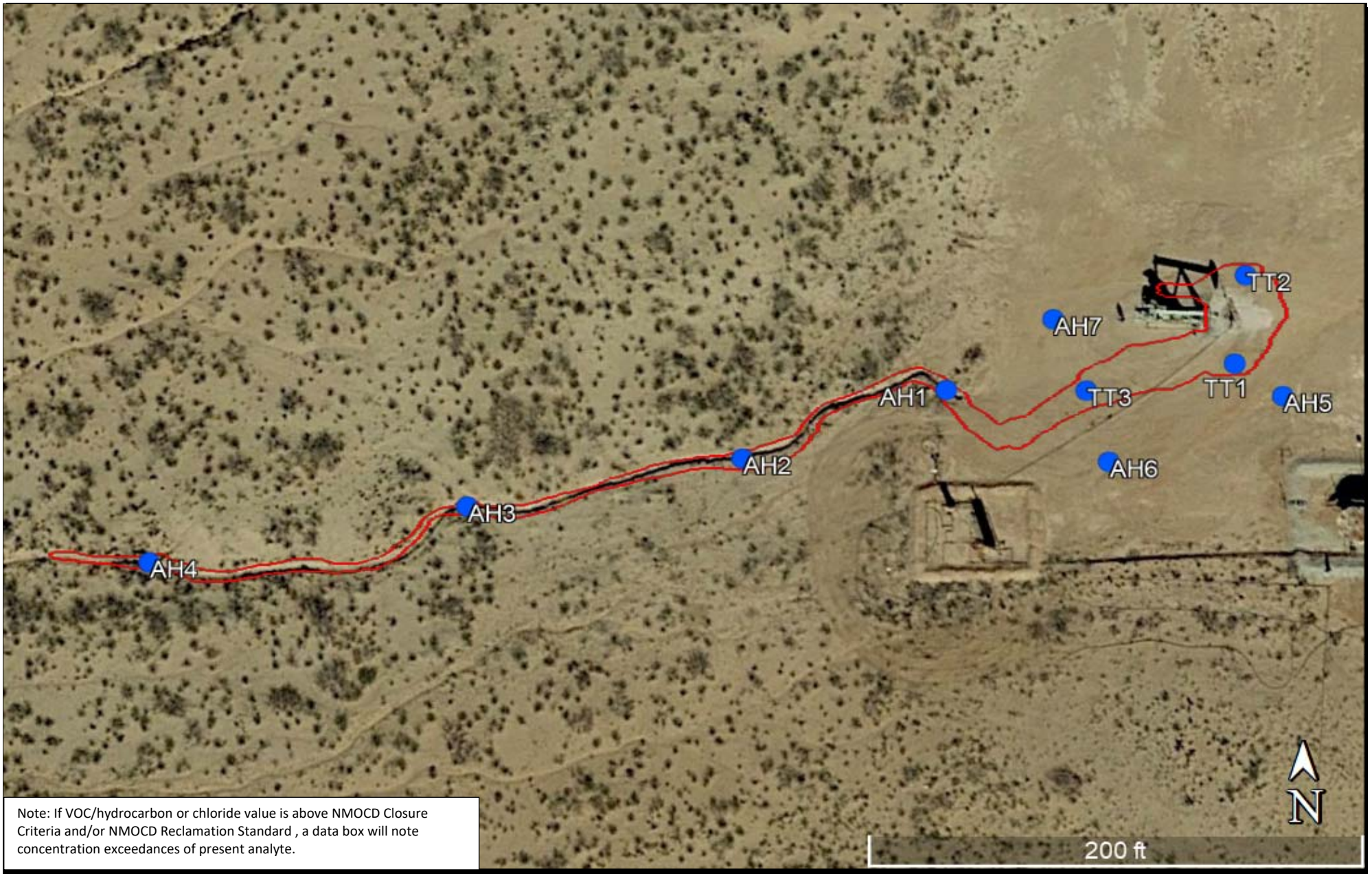
2RP-2211

WPX Energy, Inc.

GPS: 31.004760, -103.879775

eTECH Environmental & Safety Solutions, Inc.

Drafted: JH Checked: JH Date: 2/28/20



Note: If VOC/hydrocarbon or chloride value is above NMOCD Closure Criteria and/or NMOCD Reclamation Standard , a data box will note concentration exceedances of present analyte.

Legend:

- Delineation Point
- Release outline

Figure 3A

Site and Sample Location

RDU 12

2RP-4095

WPX Energy, Inc.

GPS: 31.004760, -103.879775

eTECH Environmental & Safety Solutions, Inc.

Drafted: JH Checked: JH Date: 2/28/20

Table 1
Concentrations of BTEX, TPH, and/or Chloride in Soil

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL
WPX Energy, Inc.
ROSS DRAW 12
2RP-2211

Sample ID	Date	Depth	Soil Status	SW 846 8026B		SW 846 8015M Ext.					300.0 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
TT 1	1/22/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
TT 1	1/22/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
TT 2	1/22/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
TT 2	1/22/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 1	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	5,310
AH 1	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	1,970
AH 1	2/25/2020	6'	In-situ	ND	ND	ND	ND	ND	ND	ND	153
AH 2	2/25/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	166
AH 2	2/25/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 3	2/25/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	156
AH 3	2/25/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	129
AH 4	2/25/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 4	2/25/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	165
Closure Criteria				10	50	-	-	1,000	-	2,500	20,000

NOTES:

- = feet

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

ND text denotes non-detectable concentrations

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL
WPX Energy, Inc.
RDU 12
2RP-4095

Sample ID	Date	Depth	Soil Status	SW 846 8026B		SW 846 8015M Ext.					300.0 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
TT 1	1/22/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	1,360
TT 1	1/22/2020	12'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
TT 2	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	36.0
TT 2	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	108
TT 3	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	891
TT 3	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 1	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	222
AH 1	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	302
AH 2	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 2	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 3	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 3	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 4	1/23/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 4	1/23/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 5	2/25/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	ND
AH 5	2/25/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	178
AH 6	2/25/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	173
AH 6	2/25/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	155
AH 7	2/25/2020	2'	In-situ	ND	ND	ND	ND	ND	ND	ND	212
AH 7	2/25/2020	4'	In-situ	ND	ND	ND	ND	ND	ND	ND	142
Closure Criteria				10	50	-	-	1,000	-	2,500	20,000

NOTES:

- = feet

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

ND text denotes non-detectable concentrations

Appendix A
Depth to Groundwater Information

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320125103514701

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320125103514701 26S.30E.22.44124

Eddy County, New Mexico
Latitude 32°01'25", Longitude 103°51'47" NAD27
Land-surface elevation 3,044 feet above NGVD29

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1987-10-21		D	117.03			2		S		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-03-02 09:57:48 EST
0.28 0.26 nadww01

National Water Information System: Web Interface

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320125103514701

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

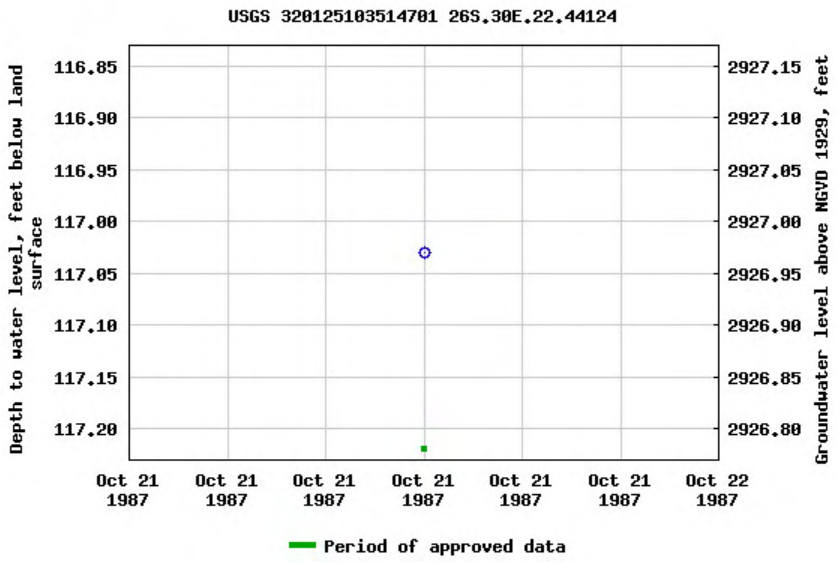
USGS 320125103514701 26S.30E.22.44124

Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13070001
Latitude 32°01'25", Longitude 103°51'47" NAD27
Land-surface elevation 3,044 feet above NGVD29

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-03-02 09:55:57 EST
0.66 0.55 nadww01

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04068 POD1		CUB	ED	1	3	1	16	26S	30E	604397	3546018	4722			
C 02165		C	ED				24	26S	30E	610036	3544121*	4967	440	180	260
C 02038		C	ED	3	2	4	26	26S	29E	599204	3541992*	6622	200		
C 03483		C	ED	4	4	4	05	26S	30E	604296	3548251	6907	700	200	500
C 03581 POD1		CUB	ED	4	4	4	05	26S	30E	604298	3548291	6946	800	320	480
C 01361		CUB	ED	3	4	3	05	26S	30E	603240	3548157	7124	775	184	591
C 01360		CUB	ED	4	3	3	05	26S	30E	602997	3548152	7211	770	173	597
C 01354 X-3		CUB	ED	2	1	3	23	26S	29E	598323	3543837	7838	170		
C 03605 POD1		CUB	ED	4	2	3	27	26S	29E	596990	3541983	8831	45	0	45
C 02248		CUB	ED	1	2	3	08	26S	31E	612942	3547316*	9196	300	292	8
C 02249		CUB	ED	1	2	3	08	26S	31E	612942	3547316*	9196	300	292	8
C 01777		C	ED				08	26S	31E	613245	3547409*	9490	325	300	25

Average Depth to Water: **215 feet**
Minimum Depth: **0 feet**
Maximum Depth: **320 feet**

Record Count: 12

UTMNAD83 Radius Search (in meters):

Easting (X): 605808.6733984414 **Northing (Y):** 3541511.5491144983 **Radius:** 10000

***UTM location was derived from PLSS - see Help**

3/1/20 1:47 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: C 02165 **Subbasin:** C **Cross Reference:** -

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT PERMIT

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Owner: GRACE OIL

Contact: CORKY GLENN

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	468923	72121	1988-05-02	PMT	LOG	C 02165	T		3	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y		Other Location Desc
C 02165		Shallow				24	26S	30E	610036	3544121*		1780 FEL 460 FSL

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

Appendix B
Field Data and Soil Profile Logs

eTECH Environmental & Safety Solutions, Inc.

Sample Log

Date: Jan 22-23, 2020

Project: RDU 12 (2RP-2211, 2RP-4095)

Project Number: 11755 Latitude: 32.00476033 Longitude: -103.8797759

Sample ID	PID/Odor	Chloride Conc.		GPS
TT 1 @ 1' @ 3:10 pm	1.7 / none	4.0	580	32.004571, -103.879486
2' @ 3:15 pm	0 / none	3.8	528	
4' @ 3:20 pm	" "	1.2	<108	
TT 2 @ 1' @ 3:30 pm	2.0 / none	4.2	632	32.004572, -103.879565
2' @ 3:45 pm	0 / none	4.0	580	
4' @ 3:50 pm	" "	1.8	132	
AH 1 @ 1' @ 1:00 pm	1.3 / none	7.6	2,076	32.004553, -103.879662
2' @ 1:15 pm	0 / none	6.6	1,488	
4' @ 1:30 pm	1.7 / none	7.0	1,696	* Auger max depth

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

ETECH Environmental & Safety Solutions, Inc.

Soil Profile

Date: Jan 22-23, 2020

Project: RDU 12 (2RP-2211)

Project Number: 11755 Latitude: 32.00476033 Longitude: -103.8797759

Depth (ft. bgs)	Description
1	light medium brown silty sand trace caliche
2	medium brown silty sand
3	
4	"
5	" caliche in part
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
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30	
31	
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eTECH Environmental & Safety Solutions, Inc.

Sample Log

Date: 2.25.20

Project: RDU 12 (2RP-2211)

Project Number: 11755 Latitude: 32.00476033 Longitude: -103.8797759

Sample ID	PID/Odor	Chloride Conc.	GPS
AH2@ 1' 3:20pm	0/none	2.2 → 220	32.004631, -103.879679
2' 3:25pm	0.4/none	1.6 → 148	
3' 3:30pm	0/none	1.4 → 124	
4' 3:40pm	" "	1.0 → <124	
AH3@ 1' 3:50pm	0.7/none	1.8 → 168	32.004560, -103.879742
2' 4:00pm	0/none	1.4 → 124	
3' 4:10pm	" "	1.0 → <124	
4' 4:15pm	" "	1.0 → <124	
AH4 @ 1' 4:20pm	1.3/none	1.2 → <124	32.004450, -103.879646
2' 4:25pm	0/none	1.8 → 168	
3' 4:30pm	" "	2.0 → 196	
4' 4:45pm	" "	1.0 → <124	
AH1 @ 6' 5:25pm	0/none	1.4 → 124	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

eTECH Environmental & Safety Solutions, Inc.

Soil Profile

Date: 2.25.20

Project: RDU 12 (2RP-2211)

Project Number: 11755 Latitude: 32.00476033 Longitude: -103.8797759

Depth (ft. bgs)	Description
1	light-medium brown silty sand, poorly sorted
2	medium brown silty sand
3	" "
4	medium brown silty sand, trace caliche
5	
AH 1 @ 6	brown silty sand, trace of clays
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
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eTECH Environmental & Safety Solutions, Inc.

Sample Log

Date: Jun 22-23, 2020

Project: RDU 12 (2RP-2211) (2RP-4095)

Project Number: 11755 Latitude: 32.00476033 Longitude: -103.8797759

Sample ID	PID/Odor	Chloride Conc.		GPS
TT1 @ 1' @ 1:35 pm	10.0 / mild	7.2	1,812	32.004723, -103.879774
2' @ 1:45 pm	0.2 / none	4.6	744	
4' @ 1:50 pm	40.0 / mild	5.4	996	
6' @ 1:55 pm	20.5 / mild	6.8	1,588	
8' @ 2:00 pm	30.0 / mild	~4.8	804	
10' @ 2:15 pm	5.6 / mild	5.0	864	
12' @ 2:20 pm	0.1 / none	1.0	<108	
TT2 @ 1' @ 10:30 am	2.0 / none	5.6	1,068	32.004828, -103.879758
2' @ 10:45 am	0 / none	4.6	744	
4' @ 10:50 am	" "	2.0	164	
TT3 @ 1' @ 11:00 am	1.3 / none	6.2	1,304	32.004690, -103.879971
2' @ 11:15 am	0 / none	6.0	1,220	
4' @ 11:20 am	" "	1.4	<108	
AH 1 @ 1' @ 11:57 am	0 / none	3.0	348	32.004691, -103.880156
2' @ 12:00 pm	" "	1.8	132	
4' @ 12:05 pm	" "	1.2	<108	
AH 2 @ 1' @ 12:07 pm	0 / none	2.4	232	32.004609, -103.880425
2' @ 12:10 pm	" "	1.0	<108	
4' @ 12:15 pm	" "	0.8	" "	
AH 3 @ 1' @ 12:17 pm	0 / none	2.0	164	32.004552, -103.880790
2' @ 12:20 pm	" "	1.6	108	
4' @ 12:25 pm	" "	1.0	<108	
AH 4 @ 1' @ 12:27 pm	0 / none	1.8	132	32.004484, -103.881212
2' @ 12:30 pm	" "	0.8	<108	
4' @ 12:35 pm	" "	0.6	<108	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Area

ETECH Environmental & Safety Solutions, Inc.

Soil Profile

Project: RDU 12 (2RP-4095)

Project Number: 11755 Latitude: 32.00476033 Longitude: -103.8797759

Date: Jan 22-23-2020

Depth (ft. bgs)	Description
1	Caliche, tan brown silty sand
2	light - med brown silty sand
3	
4	medium brown silty sand, caliche in part
5	
6	medium dk brown clay w/ silty sand
7	
8	medium brown silty sand, clay in part, trace caliche
9	
10	clays w/ trace red sandstone
11	
12	" SAA "
13	
14	
15	
16	
17	
18	
19	
20	
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eTECH Environmental & Safety Solutions, Inc.

Sample Log

Project: RDU 12 (2RP-4095) Date: 2.25.20

Project Number: 11755 Latitude: 32.00476033 Longitude: -103.8797759

Sample ID	PID/Odor	Chloride Conc.	GPS
AH 5 @ 1:55pm 1'	1.6 / none	2.2 → 220	32.004674, -103.879735
2:00pm 2'	1.0 / none	1.8 → 168	
2:10pm 3'	" "	1.0 → <124	
2:15pm 4'	0 / none	~1.0 → <124	
AH 6 @ 2:20pm 1'	2.7 / none	1.6 → 148	32.004593, -103.879937
2:30pm 2'	1.3 / none	1.0 → <124	
2:35pm 3'	0 / none	~1.0 → <124	
2:45pm 4'	" "	" " → <124	
AH 7 @ 2:50pm 1'	0 / none	~2.4 → ~248	32.004753, -103.880030
3:00pm 2'	" "	1.2 → <124	
3:10pm 3'	" "	1.6 → 148	
3:15pm 4'	" "	1.0 → <124	

Sample Point = SP #1 @ ## etc
Floor = FL #1 etc
Sidewall = SW #1 etc

Test Trench = TT #1 @ ##
Refusal = SP #1 @ 4'-R
Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b
Stockpile = Stockpile #1
GPS Sample Points, Center of Comp Areas

ETECH Environmental & Safety Solutions, Inc.

Soil Profile

Date: 2.25.20

Project: RDU 12 (2RP-4095)

Project Number: 11755 Latitude: 32.00476033 Longitude: -103.8797759

Depth (ft. bgs)	Description
1	light - med dk brown, silty sand
2	med dk brown silty sand
3	med brown silty sand, caliche in part
4	med brown silty sand trace of caliche
5	
6	
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Location RDU12 (2RP-2211, 4095) Date 1.15.20

Project / Client WPX Energy

Scale 32.00476033, -103.8797759

0912 - Arrive onsite / prepare JSA

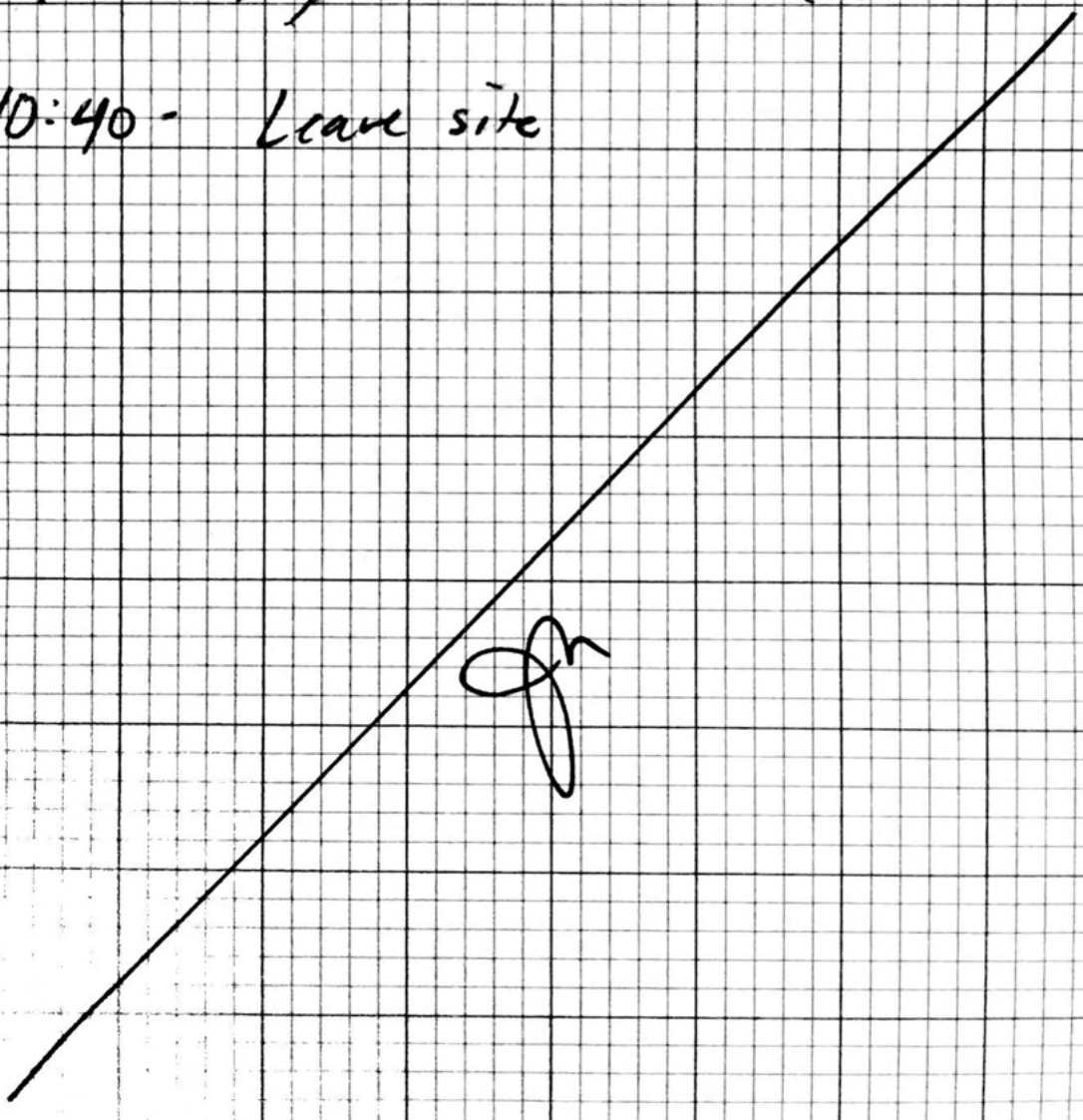
0930 - Tailgate safety meeting

0945 - Take photos of releases

0955 - Stake white flags for one-call

10:15 - Begin release track(s)

10:40 - Leave site



Rite in the Rain

Location RDU 12 Date 1.22.20

Project / Client 2RP-4095 / 2RP-2211 (WPX)

32.00476033, -103.8797759

1:20 pm - Onsite w/ Kemp (operator) prepare JSA, conduct tailgate safety meeting, calibrate PID

1:25 pm - Site walkthrough, confirm utilize locates: Yellow flags down

1:27 pm - Began delineation activities for 2RP-4095

2:30 pm - Call Delaware Basin to schedule line remark to confirm subsurface gas line. (west of pad from meter run

2:45 pm - Prep for delineation activities (2RP-2211) inside tank battery

3:00 pm - Utilize backhoe to pothole over fence.

3:05 pm - Begin delineation activities for (-2211)

4:15 pm - finish, load equipment

4:30 pm - offsite

JS

Location RDU 12 Date 1.23.20

Project / Client 2RP-4095 / 2RP-2211 (WPX)

32.004760332, -103.879775899

10:15 am - Confirmed w/ Delaware Basin, site has been remarked, can cont. to delineate on pad.

10:20 am - Prep JSA - tailgate safety meeting w/ temp. Inbe equipment, calibrate ~~JSA~~ PID

10:25 am - Continue delineating 2RP-4095

11:45 am - Install ~~Future~~ borings in pasture / wash

12:35 pm - Finish borings for 2RP-4095

1:00 pm - Install augerhole inside tank battery inaccessible w/ equipment for -2211.

1:45 pm - Finish delineation activities

2:30 pm - load equipment

3:00 pm - offsite to submit samples.

* reference Sample map / log for Screening

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Location RDU12 (2RP-2211, 4095) Date 2/25/20

Project / Client WPX Energy

1:00 pm - Onsite, JSA prep, tailgate safety meeting, calibrate PID, prep screening equipment

1:30 pm - Begin delineating (cont.) 2211 & 4095

5:30 pm - Finish delineating site / screening. Begin jarring samples to take to lab

5:50 pm - Offsite

Appendix C
Laboratory Analytical Reports

envirotech
Analytical Laboratory

Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 1/24/2020
Job Number: 04108-0639
Work Order: P001079
Project Name/Location: RDU 12 (2RP-2211)

Report Reviewed By: Date: 1/30/20

Walter Hinchman, Laboratory Director

NELAP ACCREDITED TNI LABORATORY

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

envirotech
Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 16:46

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TT2 @ 2'	P001079-01A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT2 @ 4'	P001079-02A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT1 @ 2'	P001079-03A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT1 @ 4'	P001079-04A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
AH1 @ 2'	P001079-05A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH1 @ 4'	P001079-06A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 16:46

TT2 @ 2'

P001079-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*		*50-150*	*2005010*	*01/27/20*	*01/29/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		*90.0 %*		*50-200*	*2005001*	*01/27/20*	*01/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.5 %*		*50-150*	*2005010*	*01/27/20*	*01/29/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 16:46

TT2 @ 4'

P001079-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*		*50-150*	*2005010*	*01/27/20*	*01/29/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		*101 %*		*50-200*	*2005001*	*01/27/20*	*01/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.6 %*		*50-150*	*2005010*	*01/27/20*	*01/29/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 16:46

TT1 @ 2'

P001079-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*		*50-150*	*2005010*	*01/27/20*	*01/29/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		*87.9 %*		*50-200*	*2005001*	*01/27/20*	*01/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.3 %*		*50-150*	*2005010*	*01/27/20*	*01/29/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 16:46

TT1 @ 4'

P001079-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*2005010*	*01/27/20*	*01/29/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		*93.5 %*		*50-200*	*2005001*	*01/27/20*	*01/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.7 %*		*50-150*	*2005010*	*01/27/20*	*01/29/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 16:46

AH1 @ 2'

P001079-05 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*2005010*	*01/27/20*	*01/29/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		*85.4 %*		*50-200*	*2005001*	*01/27/20*	*01/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.8 %*		*50-150*	*2005010*	*01/27/20*	*01/29/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**5310**	100	mg/kg	5	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 16:46

AH1 @ 4'

P001079-06 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*2005010*	*01/27/20*	*01/29/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005001	01/27/20	01/27/20	EPA 8015D	
Surrogate: n-Nonane		*89.8 %*		*50-200*	*2005001*	*01/27/20*	*01/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005010	01/27/20	01/29/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.7 %*		*50-150*	*2005010*	*01/27/20*	*01/29/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**1970**	100	mg/kg	5	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 16:46

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005010 - Purge and Trap EPA 5030A										
Blank (2005010-BLK1)				Prepared: 01/27/20 1 Analyzed: 01/30/20 1						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	*7.96*		*"*	*8.00*		*99.5*	*50-150*			
LCS (2005010-BS1)				Prepared: 01/27/20 1 Analyzed: 01/28/20 1						
Benzene	5.07	0.0250	mg/kg	5.00		101	70-130			
Toluene	5.15	0.0250	"	5.00		103	70-130			
Ethylbenzene	5.07	0.0250	"	5.00		101	70-130			
p,m-Xylene	10.1	0.0500	"	10.0		101	70-130			
o-Xylene	5.03	0.0250	"	5.00		101	70-130			
Total Xylenes	15.1	0.0250	"	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.10*		*"*	*8.00*		*101*	*50-150*			
Matrix Spike (2005010-MS1)		**Source: P001077-01**		Prepared: 01/27/20 1 Analyzed: 01/28/20 2						
Benzene	4.90	0.0250	mg/kg	5.00	ND	97.9	54.3-133			
Toluene	5.02	0.0250	"	5.00	ND	100	61.4-130			
Ethylbenzene	4.95	0.0250	"	5.00	ND	99.0	61.4-133			
p,m-Xylene	9.84	0.0500	"	10.0	ND	98.4	63.3-131			
o-Xylene	4.92	0.0250	"	5.00	ND	98.4	63.3-131			
Total Xylenes	14.8	0.0250	"	15.0	ND	98.4	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	*8.20*		*"*	*8.00*		*103*	*50-150*			
Matrix Spike Dup (2005010-MSD1)		**Source: P001077-01**		Prepared: 01/27/20 1 Analyzed: 01/28/20 2						
Benzene	4.87	0.0250	mg/kg	5.00	ND	97.5	54.3-133	0.454	20	
Toluene	5.00	0.0250	"	5.00	ND	100	61.4-130	0.454	20	
Ethylbenzene	4.94	0.0250	"	5.00	ND	98.8	61.4-133	0.212	20	
p,m-Xylene	9.82	0.0500	"	10.0	ND	98.2	63.3-131	0.258	20	
o-Xylene	4.91	0.0250	"	5.00	ND	98.2	63.3-131	0.239	20	
Total Xylenes	14.7	0.0250	"	15.0	ND	98.2	63.3-131	0.252	20	
Surrogate: 4-Bromochlorobenzene-PID	*8.21*		*"*	*8.00*		*103*	*50-150*			

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 16:46

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005001 - DRO Extraction EPA 3570										
Blank (2005001-BLK1)				Prepared: 01/27/20 0 Analyzed: 01/27/20 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*53.3*		*"*	*50.0*		*107*	*50-200*			
LCS (2005001-BS1)				Prepared: 01/27/20 0 Analyzed: 01/27/20 1						
Diesel Range Organics (C10-C28)	450	25.0	mg/kg	500		90.1	38-132			
Surrogate: n-Nonane	*50.2*		*"*	*50.0*		*100*	*50-200*			
Matrix Spike (2005001-MS1)	**Source: P001072-01**			Prepared: 01/27/20 0 Analyzed: 01/27/20 1						
Diesel Range Organics (C10-C28)	479	25.0	mg/kg	500	29.1	90.0	38-132			
Surrogate: n-Nonane	*47.3*		*"*	*50.0*		*94.7*	*50-200*			
Matrix Spike Dup (2005001-MSD1)	**Source: P001072-01**			Prepared: 01/27/20 0 Analyzed: 01/27/20 1						
Diesel Range Organics (C10-C28)	483	25.0	mg/kg	500	29.1	90.9	38-132	0.962	20	
Surrogate: n-Nonane	*47.5*		*"*	*50.0*		*95.0*	*50-200*			

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 16:46

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005010 - Purge and Trap EPA 5030A										
Blank (2005010-BLK1)				Prepared: 01/27/20 1 Analyzed: 01/30/20 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.05*		"	*8.00*		*88.1*	*50-150*			
LCS (2005010-BS2)				Prepared: 01/27/20 1 Analyzed: 01/28/20 1						
Gasoline Range Organics (C6-C10)	46.6	20.0	mg/kg	50.0		93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.08*		"	*8.00*		*88.5*	*50-150*			
Matrix Spike (2005010-MS2)		**Source: P001077-01**		Prepared: 01/27/20 1 Analyzed: 01/28/20 2						
Gasoline Range Organics (C6-C10)	48.2	20.0	mg/kg	50.0	ND	96.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.12*		"	*8.00*		*89.0*	*50-150*			
Matrix Spike Dup (2005010-MSD2)		**Source: P001077-01**		Prepared: 01/27/20 1 Analyzed: 01/28/20 2						
Gasoline Range Organics (C6-C10)	45.1	20.0	mg/kg	50.0	ND	90.2	70-130	6.61	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.15*		"	*8.00*		*89.4*	*50-150*			

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 16:46

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005019 - Anion Extraction EPA 300.0/9056A										
Blank (2005019-BLK1)				Prepared & Analyzed: 01/28/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2005019-BS1)				Prepared & Analyzed: 01/28/20 1						
Chloride	254	20.0	mg/kg	250		102	90-110			
Matrix Spike (2005019-MS1)		**Source: P001076-01**		Prepared & Analyzed: 01/28/20 1						
Chloride	1600	100	mg/kg	250	1360	96.3	80-120			
Matrix Spike Dup (2005019-MSD1)		**Source: P001076-01**		Prepared & Analyzed: 01/28/20 1						
Chloride	1620	100	mg/kg	250	1360	104	80-120	1.26	20	

QC Summary Report
Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	01/30/20 16:46

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Project Information		Report Attention		Lab Use Only		TAT		EPA Program		
Client:		Report due by:		Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA
Project: RDU12 (ZRP-2211)		Attention:		P001079	04108-0039					
Project Manager:		Address:		Analysis and Method				State		
Address:		City, State, Zip						NM	CO	UT	A
City, State, Zip		Phone:						X			
Phone:		Email: joseph@etechenv.com									
Email: Lynda@WPX											

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BLDOCM					Remarks
3:45pm	1.22.20	S	1	TT2 @ 2'	1							X					
3:50pm	1.22.20	S	1	TT2 @ 4'	2												
3:15pm	1.22.20		1	TT1 @ 2'	3												
3:20pm	1.22.20		1	TT1 @ 4'	4												
1:15pm	1.23.20		1	AH1 @ 2'	5												
1:30pm	↓	↓	1	AH1 @ 4'	6												

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	1.23.20	4:25pm		1-23-2020	1625
	1.24.2020	1915	Raine Lopez	1/24/20	19:30

Lab Use Only
Received on ice: (Y) / N
T1 _____ T2 _____ T3 _____
AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____
Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratry is limited to the amount paid for on the report.

envirotech Analytical Laboratory
5796 US Highway 64, Farmington, NM 87401 | Ph (505) 632-0615 Fx (505) 632-1865
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 | Ph (970) 259-0615 Fr (800) 362-1879
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laboratory@envirotech-Inc.com

Chain of Custody

Page 1 of 1

Project Information

Client: WPX
Project: RDU 12 (ZEP-2211)
Project Manager: Lynda Laumbach
Address:
City, State, Zip
Phone:
Email: Lynda @ WPX

Report Attention

Report due by:
Attention:
Address:
City, State, Zip
Phone:
Email: joseph @ etechenv.com

Lab Use Only

Lab WO# P001079
Job Number 04108-0039

TAT: 1D, 3D

EPA Program: RCRA, CWA, SDW

State: NM X, CO, UT, A

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC-MW	Remarks
3:45pm	1.22.20	S	1	TT2 @ 2'	1							X	
3:50pm	1.22.20	S	1	TT2 @ 4'	2								
3:15pm	1.22.20		1	TT1 @ 2'	3								
3:20pm	1.22.20		1	TT1 @ 4'	4								
1:15pm	1.23.20		1	AH1 @ 2'	5								
1:30pm	↓	↓	1	AH1 @ 4'	6								

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	1.23.20	4:25pm		1-23-2020	1625
	1.24.2020	1915	Raine Lopez	1/24/20	19:30

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboraotry is limited to the amount paid for on the report.

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laboratory@envirotech-inc.com

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Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 2/27/2020
Job Number: 04108-0639
Work Order: P002091
Project Name/Location: RDU 12 (2RP-2211)

Report Reviewed By: Date: 2/28/20

Walter Hinchman, Laboratory Director

NELAP ACCREDITED TNI LABORATORY

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:37

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
AH1 @ 6'	P002091-01A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH2 @ 2'	P002091-02A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH2 @ 4'	P002091-03A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH3 @ 2'	P002091-04A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH3 @ 4'	P002091-05A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH4 @ 2'	P002091-06A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH4 @ 4'	P002091-07A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:37

AH1 @ 6'

P002091-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		*89.5 %*		*50-200*	*2009029*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.4 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**153**	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:37

AH2 @ 2'

P002091-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		*84.8 %*		*50-200*	*2009029*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.6 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**166**	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:37

AH2 @ 4'

P002091-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		*92.0 %*		*50-200*	*2009029*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.0 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:37

AH3 @ 2'

P002091-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		*93.8 %*		*50-200*	*2009029*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.4 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**156**	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:37

AH3 @ 4'

P002091-05 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		*95.2 %*		*50-200*	*2009029*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.3 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**129**	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:37

AH4 @ 2'

P002091-06 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		*87.2 %*		*50-200*	*2009029*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.1 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:37

AH4 @ 4'

P002091-07 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*99.9 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		*96.7 %*		*50-200*	*2009029*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.4 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**165**	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:37

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009030 - Purge and Trap EPA 5030A										
Blank (2009030-BLK1)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	*8.34*		*"*	*8.00*		*104*	*50-150*			
LCS (2009030-BS1)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Benzene	4.94	0.0250	mg/kg	5.00		98.7	70-130			
Toluene	4.94	0.0250	"	5.00		98.8	70-130			
Ethylbenzene	4.93	0.0250	"	5.00		98.6	70-130			
p,m-Xylene	9.84	0.0500	"	10.0		98.4	70-130			
o-Xylene	4.93	0.0250	"	5.00		98.6	70-130			
Total Xylenes	14.8	0.0250	"	15.0		98.5	0-200			
Surrogate: 4-Bromochlorobenzene-PID	*8.42*		*"*	*8.00*		*105*	*50-150*			
Matrix Spike (2009030-MS1)		**Source: P002090-01**		Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Benzene	4.96	0.0250	mg/kg	5.00	ND	99.1	54.3-133			
Toluene	4.96	0.0250	"	5.00	ND	99.2	61.4-130			
Ethylbenzene	4.96	0.0250	"	5.00	ND	99.1	61.4-133			
p,m-Xylene	9.90	0.0500	"	10.0	ND	99.0	63.3-131			
o-Xylene	4.96	0.0250	"	5.00	ND	99.3	63.3-131			
Total Xylenes	14.9	0.0250	"	15.0	ND	99.1	0-200			
Surrogate: 4-Bromochlorobenzene-PID	*8.40*		*"*	*8.00*		*105*	*50-150*			
Matrix Spike Dup (2009030-MSD1)		**Source: P002090-01**		Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Benzene	5.11	0.0250	mg/kg	5.00	ND	102	54.3-133	3.13	20	
Toluene	5.09	0.0250	"	5.00	ND	102	61.4-130	2.55	20	
Ethylbenzene	5.07	0.0250	"	5.00	ND	101	61.4-133	2.31	20	
p,m-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131	2.15	20	
o-Xylene	5.07	0.0250	"	5.00	ND	101	63.3-131	2.20	20	
Total Xylenes	15.2	0.0250	"	15.0	ND	101	0-200	2.17	200	
Surrogate: 4-Bromochlorobenzene-PID	*8.44*		*"*	*8.00*		*105*	*50-150*			

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:37

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009029 - DRO Extraction EPA 3570										
Blank (2009029-BLK1)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*46.1*		*"*	*50.0*		*92.2*	*50-200*			
LCS (2009029-BS1)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Diesel Range Organics (C10-C28)	453	25.0	mg/kg	500		90.6	38-132			
Surrogate: n-Nonane	*47.5*		*"*	*50.0*		*95.0*	*50-200*			
Matrix Spike (2009029-MS1)	**Source: P002090-01**			Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Diesel Range Organics (C10-C28)	462	25.0	mg/kg	500	ND	92.4	38-132			
Surrogate: n-Nonane	*48.3*		*"*	*50.0*		*96.5*	*50-200*			
Matrix Spike Dup (2009029-MSD1)	**Source: P002090-01**			Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Diesel Range Organics (C10-C28)	466	25.0	mg/kg	500	ND	93.2	38-132	0.836	20	
Surrogate: n-Nonane	*48.6*		*"*	*50.0*		*97.2*	*50-200*			

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:37

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009030 - Purge and Trap EPA 5030A										
Blank (2009030-BLK1)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.53*		*"*	*8.00*		*94.1*	*50-150*			
LCS (2009030-BS2)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Gasoline Range Organics (C6-C10)	46.6	20.0	mg/kg	50.0		93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.45*		*"*	*8.00*		*93.1*	*50-150*			
Matrix Spike (2009030-MS2)		**Source: P002090-01**		Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Gasoline Range Organics (C6-C10)	46.4	20.0	mg/kg	50.0	ND	92.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.53*		*"*	*8.00*		*94.2*	*50-150*			
Matrix Spike Dup (2009030-MSD2)		**Source: P002090-01**		Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Gasoline Range Organics (C6-C10)	47.5	20.0	mg/kg	50.0	ND	94.9	70-130	2.15	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.39*		*"*	*8.00*		*92.4*	*50-150*			

envirotech Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:37

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009031 - Anion Extraction EPA 300.0/9056A										
Blank (2009031-BLK1)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2009031-BS1)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Chloride	263	20.0	mg/kg	250		105	90-110			
Matrix Spike (2009031-MS1)		**Source: P002090-01**		Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Chloride	331	100	mg/kg	250	ND	132	80-120			M1
Matrix Spike Dup (2009031-MSD1)		**Source: P002090-01**		Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Chloride	324	100	mg/kg	250	ND	130	80-120	2.05	20	M1

QC Summary Report
Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-2211)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:37

Notes and Definitions

M1	Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Client:	WPX
Project:	RDU 12 (2RP-2211)
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	Lynda @ WPX

Report Attention

Report due by:	
Attention:	
Address:	
City, State, Zip	
Phone:	
Email:	joseph@etechenv.com

Lab Use Only

Lab WO#	Job Number
P 002091	04108-0639

TAT: 1D X | 3D

EPA Program: RCRA | CWA | SDW

State: NM X | CO | UT | A

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005	BGDOC - NM	BGDOC - TX	Remarks
5:25pm	2.25.20	S	1	AH1@6'	1						X				
3:25pm		S	1	AH2@2'	2						X				
3:40pm		S	1	AH2@4'	3						X				
4:00 pm		S	1	AH3@2'	4						X				
4:15 pm		S	1	AH3@4'	5						X				
4:25 pm		S	1	AH4@2'	6						X				
4:45 pm		S	1	AH4@4'	7						X				

Additional Instructions: * 24 hr TAT

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	2.25.20	5:15pm		2.25.20	1715
	2.26.2020	1325	Raina Lopez	2/27/20	9:30

Lab Use Only

Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech Analytical Laboratory
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labadmin@envirotech-inc.com

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Analytical Laboratory

Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 1/24/2020
Job Number: 04108-0639
Work Order: P001076
Project Name/Location: RDU 12 (2RP-4095)

Report Reviewed By: Walter Hinchman Date: 1/30/20

Walter Hinchman, Laboratory Director

NELAP ACCREDITED TNI LABORATORY

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TT1 @ 2'	P001076-01A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT1 @ 12'	P001076-02A	Soil	01/22/20	01/24/20	Glass Jar, 4 oz.
TT2 @ 2'	P001076-03A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
TT2 @ 4'	P001076-04A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
TT3 @ 2'	P001076-05A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
TT3 @ 4'	P001076-06A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 1 @ 2'	P001076-07A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 1 @ 4'	P001076-08A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 2 @ 2'	P001076-09A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 2 @ 4'	P001076-10A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 3 @ 2'	P001076-11A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 3 @ 4'	P001076-12A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 4 @ 2'	P001076-13A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.
AH 4 @ 4'	P001076-14A	Soil	01/23/20	01/24/20	Glass Jar, 4 oz.

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

TT1 @ 2'

P001076-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*110 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*96.2 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*91.6 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		*89.6 %*		*50-200*	*2005012*	*01/27/20*	*01/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*110 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*96.2 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*91.6 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**1360**	100	mg/kg	5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

TT1 @ 12'

P001076-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*98.3 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*92.4 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		*90.7 %*	*50-200*		*2005012*	*01/27/20*	*01/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*98.3 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*92.4 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

TT2 @ 2'

P001076-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*106 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*96.5 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*90.5 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		*88.7 %*		*50-200*	*2005012*	*01/27/20*	*01/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*106 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*96.5 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*90.5 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**36.0**	20.0	mg/kg	1	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

TT2 @ 4'

P001076-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*96.7 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*91.1 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		*87.9 %*		*50-200*	*2005012*	*01/27/20*	*01/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*96.7 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*91.1 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**108**	100	mg/kg	5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

envirotech Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

TT3 @ 2'

P001076-05 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*96.9 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*91.3 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		*76.9 %*	*50-200*		*2005012*	*01/27/20*	*01/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*96.9 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*91.3 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**891**	40.0	mg/kg	2	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

envirotech Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

TT3 @ 4'

P001076-06 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*96.4 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*88.5 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		*85.5 %*	*50-200*		*2005012*	*01/27/20*	*01/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*96.4 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*88.5 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

AH 1 @ 2'

P001076-07 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*108 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*95.2 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*89.4 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		*89.8 %*		*50-200*	*2005012*	*01/27/20*	*01/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*108 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*95.2 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*89.4 %*		*70-130*	*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**222**	100	mg/kg	5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

AH 1 @ 4'

P001076-08 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*96.8 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*90.2 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		*89.4 %*	*50-200*		*2005012*	*01/27/20*	*01/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/28/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*96.8 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*90.2 %*	*70-130*		*2005016*	*01/28/20*	*01/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**302**	100	mg/kg	5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

AH 2 @ 2'
P001076-09 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*95.9 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*89.5 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		*87.8 %*	*50-200*		*2005012*	*01/27/20*	*01/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*95.9 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*89.5 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

AH 2 @ 4'

P001076-10 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*97.3 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*91.0 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		*90.5 %*	*50-200*		*2005012*	*01/27/20*	*01/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*97.3 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*91.0 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

AH 3 @ 2'

P001076-11 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*107 %*		*70-130*	*2005016*	*01/28/20*	*01/29/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*96.2 %*		*70-130*	*2005016*	*01/28/20*	*01/29/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*90.3 %*		*70-130*	*2005016*	*01/28/20*	*01/29/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/28/20	EPA 8015D	
Surrogate: n-Nonane		*84.6 %*		*50-200*	*2005012*	*01/27/20*	*01/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*107 %*		*70-130*	*2005016*	*01/28/20*	*01/29/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*96.2 %*		*70-130*	*2005016*	*01/28/20*	*01/29/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*90.3 %*		*70-130*	*2005016*	*01/28/20*	*01/29/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/28/20	EPA 300.0/9056A	

envirotech Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

AH 3 @ 4'

P001076-12 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*97.7 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*89.6 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/29/20	EPA 8015D	
Surrogate: n-Nonane		*91.3 %*	*50-200*		*2005012*	*01/27/20*	*01/29/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*97.7 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*89.6 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

AH 4 @ 2'

P001076-13 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*111 %*		*70-130*	*2005016*	*01/28/20*	*01/29/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*95.8 %*		*70-130*	*2005016*	*01/28/20*	*01/29/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*90.1 %*		*70-130*	*2005016*	*01/28/20*	*01/29/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/29/20	EPA 8015D	
Surrogate: n-Nonane		*92.8 %*		*50-200*	*2005012*	*01/27/20*	*01/29/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*111 %*		*70-130*	*2005016*	*01/28/20*	*01/29/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*95.8 %*		*70-130*	*2005016*	*01/28/20*	*01/29/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*90.1 %*		*70-130*	*2005016*	*01/28/20*	*01/29/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

AH 4 @ 4'

P001076-14 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*96.2 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*89.9 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005012	01/27/20	01/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005012	01/27/20	01/29/20	EPA 8015D	
Surrogate: n-Nonane		*86.9 %*	*50-200*		*2005012*	*01/27/20*	*01/29/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005016	01/28/20	01/29/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*96.2 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*89.9 %*	*70-130*		*2005016*	*01/28/20*	*01/29/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2005019	01/28/20	01/29/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005016 - Purge and Trap EPA 5030A										
Blank (2005016-BLK1)				Prepared & Analyzed: 01/28/20 1						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	*0.546*		"	*0.500*		*109*	*70-130*			
Surrogate: Toluene-d8	*0.485*		"	*0.500*		*97.0*	*70-130*			
Surrogate: Bromofluorobenzene	*0.442*		"	*0.500*		*88.3*	*70-130*			
LCS (2005016-BS1)				Prepared & Analyzed: 01/28/20 1						
Benzene	2.54	0.0250	mg/kg	2.50		102	70-130			
Toluene	2.43	0.0250	"	2.50		97.4	70-130			
Ethylbenzene	2.40	0.0250	"	2.50		96.1	70-130			
p,m-Xylene	5.00	0.0500	"	5.00		100	70-130			
o-Xylene	2.38	0.0250	"	2.50		95.1	70-130			
Total Xylenes	7.38	0.0250	"	7.50		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.532*		"	*0.500*		*106*	*70-130*			
Surrogate: Toluene-d8	*0.507*		"	*0.500*		*101*	*70-130*			
Surrogate: Bromofluorobenzene	*0.482*		"	*0.500*		*96.4*	*70-130*			
Matrix Spike (2005016-MS1)		**Source: P001076-01**		Prepared & Analyzed: 01/28/20 1						
Benzene	2.30	0.0250	mg/kg	2.50	ND	92.2	48-131			
Toluene	2.17	0.0250	"	2.50	ND	86.9	48-130			
Ethylbenzene	2.15	0.0250	"	2.50	ND	86.1	45-135			
p,m-Xylene	4.48	0.0500	"	5.00	ND	89.5	43-135			
o-Xylene	2.13	0.0250	"	2.50	ND	85.1	43-135			
Total Xylenes	6.60	0.0250	"	7.50	ND	88.0	43-135			
Surrogate: 1,2-Dichloroethane-d4	*0.537*		"	*0.500*		*107*	*70-130*			
Surrogate: Toluene-d8	*0.497*		"	*0.500*		*99.3*	*70-130*			
Surrogate: Bromofluorobenzene	*0.475*		"	*0.500*		*95.0*	*70-130*			
Matrix Spike Dup (2005016-MSD1)		**Source: P001076-01**		Prepared & Analyzed: 01/28/20 1						
Benzene	2.46	0.0250	mg/kg	2.50	ND	98.6	48-131	6.69	23	
Toluene	2.33	0.0250	"	2.50	ND	93.1	48-130	6.98	24	
Ethylbenzene	2.31	0.0250	"	2.50	ND	92.2	45-135	6.84	27	
p,m-Xylene	4.78	0.0500	"	5.00	ND	95.5	43-135	6.47	27	
o-Xylene	2.28	0.0250	"	2.50	ND	91.0	43-135	6.75	27	
Total Xylenes	7.05	0.0250	"	7.50	ND	94.0	43-135	6.56	27	
Surrogate: 1,2-Dichloroethane-d4	*0.533*		"	*0.500*		*107*	*70-130*			
Surrogate: Toluene-d8	*0.498*		"	*0.500*		*99.5*	*70-130*			
Surrogate: Bromofluorobenzene	*0.486*		"	*0.500*		*97.2*	*70-130*			

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005012 - DRO Extraction EPA 3570										
Blank (2005012-BLK1)				Prepared: 01/27/20 1 Analyzed: 01/29/20 0						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*54.6*		*"*	*50.0*		*109*	*50-200*			
LCS (2005012-BS1)				Prepared: 01/27/20 1 Analyzed: 01/29/20 0						
Diesel Range Organics (C10-C28)	443	25.0	mg/kg	500		88.7	38-132			
Surrogate: n-Nonane	*47.2*		*"*	*50.0*		*94.4*	*50-200*			
Matrix Spike (2005012-MS1)	**Source: P001075-03**			Prepared: 01/27/20 1 Analyzed: 01/28/20 1						
Diesel Range Organics (C10-C28)	481	25.0	mg/kg	500	ND	96.1	38-132			
Surrogate: n-Nonane	*48.9*		*"*	*50.0*		*97.7*	*50-200*			
Matrix Spike Dup (2005012-MSD1)	**Source: P001075-03**			Prepared: 01/27/20 1 Analyzed: 01/28/20 1						
Diesel Range Organics (C10-C28)	464	25.0	mg/kg	500	ND	92.8	38-132	3.50	20	
Surrogate: n-Nonane	*47.8*		*"*	*50.0*		*95.5*	*50-200*			

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005016 - Purge and Trap EPA 5030A										
Blank (2005016-BLK1)				Prepared & Analyzed: 01/28/20 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	*0.546*		"	*0.500*		*109*	*70-130*			
Surrogate: Toluene-d8	*0.485*		"	*0.500*		*97.0*	*70-130*			
Surrogate: Bromofluorobenzene	*0.442*		"	*0.500*		*88.3*	*70-130*			
LCS (2005016-BS2)				Prepared & Analyzed: 01/28/20 1						
Gasoline Range Organics (C6-C10)	46.1	20.0	mg/kg	50.0		92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.537*		"	*0.500*		*107*	*70-130*			
Surrogate: Toluene-d8	*0.506*		"	*0.500*		*101*	*70-130*			
Surrogate: Bromofluorobenzene	*0.465*		"	*0.500*		*92.9*	*70-130*			
Matrix Spike (2005016-MS2)	**Source: P001076-01**			Prepared & Analyzed: 01/28/20 1						
Gasoline Range Organics (C6-C10)	43.4	20.0	mg/kg	50.0	ND	86.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.528*		"	*0.500*		*106*	*70-130*			
Surrogate: Toluene-d8	*0.497*		"	*0.500*		*99.3*	*70-130*			
Surrogate: Bromofluorobenzene	*0.466*		"	*0.500*		*93.2*	*70-130*			
Matrix Spike Dup (2005016-MSD2)	**Source: P001076-01**			Prepared & Analyzed: 01/28/20 1						
Gasoline Range Organics (C6-C10)	44.6	20.0	mg/kg	50.0	ND	89.2	70-130	2.61	20	
Surrogate: 1,2-Dichloroethane-d4	*0.501*		"	*0.500*		*100*	*70-130*			
Surrogate: Toluene-d8	*0.503*		"	*0.500*		*101*	*70-130*			
Surrogate: Bromofluorobenzene	*0.472*		"	*0.500*		*94.4*	*70-130*			

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005019 - Anion Extraction EPA 300.0/9056A										
Blank (2005019-BLK1)				Prepared & Analyzed: 01/28/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2005019-BS1)				Prepared & Analyzed: 01/28/20 1						
Chloride	254	20.0	mg/kg	250		102	90-110			
Matrix Spike (2005019-MS1)		**Source: P001076-01**		Prepared & Analyzed: 01/28/20 1						
Chloride	1600	100	mg/kg	250	1360	96.3	80-120			
Matrix Spike Dup (2005019-MSD1)		**Source: P001076-01**		Prepared & Analyzed: 01/28/20 1						
Chloride	1620	100	mg/kg	250	1360	104	80-120	1.26	20	

QC Summary Report
Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Joseph Hernandez	01/30/20 13:41

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 2

Client:	WPX
Project:	RDU 12 (2RP-4095)
Project Manager:	Joseph Hernandez
Address:	P.O Box 62228
City, State, Zip	
Phone:	
Email:	Lynda @ WPX

Report Attention

Report due by:	Standard T/A
Attention:	
Address:	
City, State, Zip	
Phone:	
Email:	joseph@etechenv.com

Lab Use Only		TAT		EPA Program		
Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA
P001076	04108-0639					

State: NM X | CO | UT | AZ

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	Remarks
1:45pm	1.22.20	S	1	TT 1 @ 2'	1							X	
2:20pm	1.22.20		1	TT 1 @ 12'	2								
10:45am	1.23.20		1	TT 2 @ 2'	3								
10:50am	1.23.20		1	TT 2 @ 4'	4								
11:15am			1	TT 3 @ 2'	5								
11:20am			1	TT 3 @ 4'	6								
12:00pm			1	AH 1 @ 2'	7								
12:05pm			1	AH 1 @ 4'	8								
12:10pm			1	AH 2 @ 2'	9								
12:15pm			1	AH 2 @ 4'	10								

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	1.23.20	4:10 pm		1.23.2020	1610
	1.24.2020	1915	Raina Lopez	1/24/20	19:30

Lab Use Only
Received on ice: (Y) / N
T1 _____ T2 _____ T3 _____
AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech Analytical Laboratory
5796 US Highway 64, Farmington, NM 87401 | Ph (505) 632-0615 Fx (505) 632-1865
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 | Ph (970) 259-0615 Fr (800) 362-1879
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laboratory@envirotech-inc.com

Project Information | Chain of Custody | Page 2 of 2

Project Information		Report Attention		Lab Use Only		TAT		EPA Program		
Client: WPX		Report due by: Standard TAT		Lab WO# P	Job Number	1D	3D	RCRA	CWA	SDWA
Project:		Attention:								
Project Manager:		Address:		Analysis and Method					State	
Address:		City, State, Zip							NM CO UT A	
City, State, Zip		Phone:							X	
Phone:		Email: joseph@etechenv.com								
Email: Lynda@WPX										

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM					Remarks
12:20pm	1.23.20	S	1	AH 3 @ 2'	11							X					
12:25pm	"	S	1	AH 3 @ 4'	12							"					
12:30pm	"	S	1	AH 4 @ 2'	13							"					
12:35pm	"	S	1	AH 4 @ 4'	14							"					

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	1.23.20	4:10 pm		1.23.2020	1610
	1.24.2020	1915	Raina Lopez	1/24/20	19:30

Lab Use Only
Received on ice: (Y) / N
T1 _____ T2 _____ T3 _____
AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboraotry is limited to the amount paid for on the report.

envirotech Analytical Laboratory
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Analytical Laboratory

Analytical Report

Report Summary

Client: WPX (Carlsbad)

Samples Received: 2/27/2020
Job Number: 04108-0639
Work Order: P002090
Project Name/Location: RDU 12 (2RP-4095)

Report Reviewed By: Date: 2/28/20

Walter Hinchman, Laboratory Director

NELAP ACCREDITED TNI LABORATORY

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:35

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
AH5 @ 2'	P002090-01A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH5 @ 4'	P002090-02A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH6 @ 2'	P002090-03A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH6 @ 4'	P002090-04A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH7 @ 2'	P002090-05A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.
AH7 @ 4'	P002090-06A	Soil	02/25/20	02/27/20	Glass Jar, 4 oz.

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:35

AH5 @ 2'

P002090-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*106 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		*90.6 %*		*50-200*	*2009029*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.6 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:35

AH5 @ 4'

P002090-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*104 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		*91.7 %*		*50-200*	*2009029*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.5 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**178**	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:35

AH6 @ 2'

P002090-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*104 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		*94.7 %*		*50-200*	*2009029*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.0 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**173**	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:35

AH6 @ 4'

P002090-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*104 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		*95.4 %*		*50-200*	*2009029*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.8 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**155**	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:35

AH7 @ 2'

P002090-05 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		*87.3 %*		*50-200*	*2009029*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.6 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**212**	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:35

AH7 @ 4'

P002090-06 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009029	02/27/20	02/27/20	EPA 8015D	
Surrogate: n-Nonane		*93.5 %*		*50-200*	*2009029*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009030	02/27/20	02/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.0 %*		*50-150*	*2009030*	*02/27/20*	*02/27/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**142**	100	mg/kg	5	2009031	02/27/20	02/27/20	EPA 300.0/9056A	

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:35

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009030 - Purge and Trap EPA 5030A										
Blank (2009030-BLK1)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	*8.34*		*"*	*8.00*		*104*	*50-150*			
LCS (2009030-BS1)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Benzene	4.94	0.0250	mg/kg	5.00		98.7	70-130			
Toluene	4.94	0.0250	"	5.00		98.8	70-130			
Ethylbenzene	4.93	0.0250	"	5.00		98.6	70-130			
p,m-Xylene	9.84	0.0500	"	10.0		98.4	70-130			
o-Xylene	4.93	0.0250	"	5.00		98.6	70-130			
Total Xylenes	14.8	0.0250	"	15.0		98.5	0-200			
Surrogate: 4-Bromochlorobenzene-PID	*8.42*		*"*	*8.00*		*105*	*50-150*			
Matrix Spike (2009030-MS1)		**Source: P002090-01**		Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Benzene	4.96	0.0250	mg/kg	5.00	ND	99.1	54.3-133			
Toluene	4.96	0.0250	"	5.00	ND	99.2	61.4-130			
Ethylbenzene	4.96	0.0250	"	5.00	ND	99.1	61.4-133			
p,m-Xylene	9.90	0.0500	"	10.0	ND	99.0	63.3-131			
o-Xylene	4.96	0.0250	"	5.00	ND	99.3	63.3-131			
Total Xylenes	14.9	0.0250	"	15.0	ND	99.1	0-200			
Surrogate: 4-Bromochlorobenzene-PID	*8.40*		*"*	*8.00*		*105*	*50-150*			
Matrix Spike Dup (2009030-MSD1)		**Source: P002090-01**		Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Benzene	5.11	0.0250	mg/kg	5.00	ND	102	54.3-133	3.13	20	
Toluene	5.09	0.0250	"	5.00	ND	102	61.4-130	2.55	20	
Ethylbenzene	5.07	0.0250	"	5.00	ND	101	61.4-133	2.31	20	
p,m-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131	2.15	20	
o-Xylene	5.07	0.0250	"	5.00	ND	101	63.3-131	2.20	20	
Total Xylenes	15.2	0.0250	"	15.0	ND	101	0-200	2.17	200	
Surrogate: 4-Bromochlorobenzene-PID	*8.44*		*"*	*8.00*		*105*	*50-150*			

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WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:35

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009029 - DRO Extraction EPA 3570										
Blank (2009029-BLK1)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*46.1*		*"*	*50.0*		*92.2*	*50-200*			
LCS (2009029-BS1)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Diesel Range Organics (C10-C28)	453	25.0	mg/kg	500		90.6	38-132			
Surrogate: n-Nonane	*47.5*		*"*	*50.0*		*95.0*	*50-200*			
Matrix Spike (2009029-MS1)	**Source: P002090-01**			Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Diesel Range Organics (C10-C28)	462	25.0	mg/kg	500	ND	92.4	38-132			
Surrogate: n-Nonane	*48.3*		*"*	*50.0*		*96.5*	*50-200*			
Matrix Spike Dup (2009029-MSD1)	**Source: P002090-01**			Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Diesel Range Organics (C10-C28)	466	25.0	mg/kg	500	ND	93.2	38-132	0.836	20	
Surrogate: n-Nonane	*48.6*		*"*	*50.0*		*97.2*	*50-200*			

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Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:35

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009030 - Purge and Trap EPA 5030A										
Blank (2009030-BLK1)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.53*		*"*	*8.00*		*94.1*	*50-150*			
LCS (2009030-BS2)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Gasoline Range Organics (C6-C10)	46.6	20.0	mg/kg	50.0		93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.45*		*"*	*8.00*		*93.1*	*50-150*			
Matrix Spike (2009030-MS2)		**Source: P002090-01**		Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Gasoline Range Organics (C6-C10)	46.4	20.0	mg/kg	50.0	ND	92.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.53*		*"*	*8.00*		*94.2*	*50-150*			
Matrix Spike Dup (2009030-MSD2)		**Source: P002090-01**		Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Gasoline Range Organics (C6-C10)	47.5	20.0	mg/kg	50.0	ND	94.9	70-130	2.15	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.39*		*"*	*8.00*		*92.4*	*50-150*			

envirotech
Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:35

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009031 - Anion Extraction EPA 300.0/9056A										
Blank (2009031-BLK1)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2009031-BS1)				Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Chloride	263	20.0	mg/kg	250		105	90-110			
Matrix Spike (2009031-MS1)		**Source: P002090-01**		Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Chloride	331	100	mg/kg	250	ND	132	80-120			M1
Matrix Spike Dup (2009031-MSD1)		**Source: P002090-01**		Prepared: 02/27/20 0 Analyzed: 02/27/20 1						
Chloride	324	100	mg/kg	250	ND	130	80-120	2.05	20	M1

QC Summary Report
Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

envirotech Analytical Laboratory

WPX (Carlsbad)	Project Name:	RDU 12 (2RP-4095)	
5315 Buena Vista Dr	Project Number:	04108-0639	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynda Laumbach	02/28/20 13:35

Notes and Definitions

M1	Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Client: WPX
Project: RDU 12 (2RP-4095)
Project Manager:
Address:
City, State, Zip
Phone:
Email: Lynda @ WPX

Report Attention
Report due by:
Attention:
Address:
City, State, Zip
Phone:
Email: joseph@etechenv.com

Lab Use Only
Lab WO# P002090
Job Number 04108-0039

TAT: 1D X, 3D

EPA Program: RCRA, CWA, SD

State: NM X, CO, UT, AZ

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC-NM	TCEQ 1005	BGDOC - NM	BGDOC - TX	Remarks
2:00pm	2.25.20	S	1	AH 5 @ 2'	1						X				
2:15pm		S	1	AH 5 @ 4'	2						X				
2:30pm		S	1	AH 6 @ 2'	3						X				
2:45pm		S	1	AH 6 @ 4'	4						X				
3:00pm		S	1	AH 7 @ 2'	5						X				
3:15pm		S	1	AH 7 @ 4'	6						X				

Analysis and Method: BGDOC-NM

Additional Instructions: * 24 hr TAT

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	2.25.20	5:15pm		2-25-20	1715
	2.26.2020	1325	Raina Lopez	2/27/20 or ~~2/26/20~~	9:30

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech Analytical Laboratory
5795 US Highway 64, Farmington, NM 87401
24 Hour Emergency Response Phone (800) 362-1879
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labadmin@envirotech-inc.com

Appendix D
Photographic Log

Site Name: RDU 12

Photographic Log

Client: WPX Energy, Inc.

Dates: 01/15/2020 - 02/25/2020

Photo Number: 1	
Photo Direction: Southeast	
Photo Description: 2RP-2211 Initial Site Assessment	

Photo Number: 2	
Photo Direction: Southwest	
Photo Description: 2RP-2211 Initial Site Assessment	

Site Name: RDU 12

Photographic Log

Client: WPX Energy, Inc.

Dates: 01/15/2020 - 02/25/2020

Photo Number: 3	
Photo Direction: East	
Photo Description: 2RP-2211 Initial Site Assessment	

Photo Number: 4	
Photo Direction: Northeast	
Photo Description: 2RP-2211 Initial Site Assessment	

Site Name: RDU 12

Photographic Log

Client: WPX Energy, Inc.

Dates: 01/15/2020 - 02/25/2020

Photo Number: 5	
Photo Direction: East	
Photo Description: 2RP-2211 Following delineation activities	

Photo Number: 6	
Photo Direction: Southwest	
Photo Description: 2RP-2211 Following continued delineation activities	

Site Name: RDU 12

Photographic Log

Client: WPX Energy, Inc.

Dates: 01/15/2020 - 02/25/2020

Photo Number: 1	
Photo Direction: Northeast	
Photo Description: 2RP-4095 Initial Site Assessment	

Photo Number: 2	
Photo Direction: Southeast	
Photo Description: 2RP-4095 Initial Site Assessment	

Site Name: RDU 12

Photographic Log

Client: WPX Energy, Inc.

Dates: 01/15/2020 - 02/25/2020

Photo Number: 3	
Photo Direction: West	
Photo Description: 2RP-4095 Initial Site Assessment	

Photo Number: 4	
Photo Direction: Southwest	
Photo Description: 2RP-4095 Following Delineation Activities	

Site Name: RDU 12

Photographic Log

Client: WPX Energy, Inc.

Dates: 01/15/2020 - 02/25/2020

Photo Number: 5	
Photo Direction: West	
Photo Description: 2RP-4095 Following delineation activities	

Photo Number: 6	
Photo Direction: East	
Photo Description: 2RP-4095 Following continued delineation activities	

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 261729

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 261729
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	None	9/6/2023