

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141

Revised August 8, 2011

MAY 01 2015

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

RECEIVED

Release Notification and Corrective Action

NAB1512455138

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	RKI E&P, LLC	Contact	Taylor Jones
Address	210 Park Ave. - Ste. 700, OKC, OK 73102	Telephone No.	405-996-5782
Facility Name	RDX 15-8	Facility Type	Oil and Gas Well

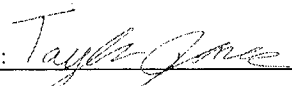

Surface Owner	Federal	Mineral Owner	Federal	API No.	30-015-36758
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	156	26S	30E	2310	South Line	330	West Line	Eddy

Latitude_ 32.0416445583352 Longitude_ -103.876658799956

NATURE OF RELEASE

Type of Release. Oil and Produced Water	Volume of Release 28 Bbls	Volume Recovered 25 Bbls
Source of Release Wellhead Stuffing Box Packing	Date and Hour of Occurrence 4/28/15 - prior to 9:00 AM CST	Date and Hour of Discovery 04/28/15 - 9:00 AM CST
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour -	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Oil/Produced water was released because wellhead stuffing box packing failed. Installing a high pressure kill on wellhead in effort to prevent this occurrence in the future.		
Describe Area Affected and Cleanup Action Taken.* The well site soil was affected, Affected well pad soil is being removed and disposed of.		
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: 	OIL CONSERVATION DIVISION	
Printed Name: Taylor Jones	Approved by Environmental Specialist: 	
Title: EHS Systems Specialist	Approval Date: 5/4/15	Expiration Date: N/A
E-mail Address: Tjones@rkixp.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines <input type="checkbox"/> <input checked="" type="checkbox"/> SUBMIT REMEDIATION PROPOSAL NO	
Date: 5/1/15 Phone: 405-996-5782	LATER THAN: 11/4/15	

* Attach Additional Sheets If Necessary

2RP-2984

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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	nAB1512455138
District RP	
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 # <i>(assigned by OCD)</i> : nAB1512455138
Contact mailing address: 5315 Buena Vista Drive, Carlsbad NM, 88220	

Location of Release Source

Latitude 32.0416445583352 Longitude -103.876658799956
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: RDX 15-8	Site Type: Well Pad
Date Release Discovered: 4/28/2015	API# (if applicable): 30-015-36758

Unit Letter	Section	Township	Range	County
L	15	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)

<input checked="" type="checkbox"/> Crude Oil/Produced Water	Volume Released (bbls): 28	Volume Recovered (bbls): 25
<input type="checkbox"/> Produced Water	Volume Released (bbls):	Volume Recovered (bbls):
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

Oil/Produced water was released because wellhead stuffing box packing failed. Installing a high pressure kill on wellhead in effort to prevent this occurrence in the future.

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


State of New Mexico
Oil Conservation Division

Incident ID	nAB1512455138
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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Unauthorized release of a volume, excluding gases, of 25 barrels or more.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was given by Taylor Jones, to Heather Patterson "NMOCD" and Zachary Laird "BLM" via email on May 1, 2015.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> 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: <u>Jim Raley</u>	Title: <u>Environmental Professional</u>
Signature: <u></u>	Date: <u>9/29/2023</u>
email: <u>Jim.Raley@dvn.com</u>	Telephone: <u>575-689-7597</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	nAB1512455138
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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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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	nAB1512455138
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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:  Date: 9/29/2023
email: Jim.Raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

Incident ID	nAB1512455138
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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 RaleyTitle: Environmental ProfessionalSignature: Date: 9/29/2023email: Jim.Raley@dvn.comTelephone: 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: 10/17/2023Printed Name: Ashley MaxwellTitle: Environmental Specialist



CLOSURE REQUEST REPORT

RDX 15-8

Eddy County, New Mexico

Incident Number nAB1512455138

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 site assessment, delineation and excavation activities and subsequent soil sampling events associated with an inadvertent release of crude oil and produced water at the RDX 15-8 (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 L, Section 15, Township 26 South, Range 30 East in Eddy County, New Mexico (32.0416445583352°, -103.876658799956°) 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**).

On April 28, 2015, it was discovered that a wellhead stuffing box packing failed and resulted in the release of approximately 28 barrels (bbls) of crude oil and produced water to be released onto the well pad surface. A vacuum truck was dispatched to the Site and recovered approximately 25 bbls of fluids. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on May 1, 2015, and was subsequently assigned Incident Number nAB1512455138. The initial C-141 noted an incorrect Section in the legals and is corrected on the Final C-141 form. **Figure 2** in **Appendix A** depicts the observed release footprint, hereafter referred to as the Area of Concern (AOC). Shortly following the release, WPX excavated observed residual soil impacts concurrently with the repair of the wellhead stuffing box and installed a high pressure kill switch on the wellhead. Following wellhead stuffing box packing replacement operations, the excavation was backfilled and resurfaced to match the original well pad grade. Since initial response efforts, plugging and abandonment activities at the Site were completed in 2018.

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.

Depth to ground water at the Site is estimated to be greater than 100 feet below ground surface (bgs), based off a nearby soil boring advanced by Talon LPE on behalf of WPX, located approximately 0.38 miles southwest of the Site on the RDX 16-25 well pad. Soil boring (MW-1) was advanced on December 10, 2020, via a truck mounted drill rig equipped with a hollow stem auger to a total depth of 110 feet bgs. No fluids were observed throughout the drilling process nor after a 72-hour observation period. The soil boring location may be referenced on **Figure 1** in **Appendix A**. Following the

observation period, the boring was plugged and abandoned according to the appropriate regulations. Referenced well logs are provided in **Appendix B**.

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
TPH-Gasoline Range Organics (GRO) + TPH-Diesel Range Organics (DRO)	EPA 8021B	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

From July 12 through July 19, 2023, Etech conducted delineation activities to assess the presence or absence of residual soil impacts associated with the AOC. Five delineation potholes (PH01 through PH05) were advanced via hand auger and/or mechanical equipment within the AOC. 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 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 delineation soil sample locations are shown in **Figure 2** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix D**.

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, Inc Laboratories (Envirotech) in Farmington, New Mexico, for analysis of COCs.

DELINEATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples indicated BTEX and TPH concentrations were below the applicable Site Closure Criteria and/or reclamation standard; however, chloride concentrations for all delineation soil samples exceeded the reclamation standard within the top 4 feet bgs. 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 20 through September 11, 2023, excavation activities were performed to address residual impacts according to delineation field screening and laboratory analytical results. Excavation activities were advanced via mechanical equipment and further directed by field screening for VOCs and chloride, as previously described.

Following the removal of soil, Etech collected 5-point composite soil samples at a sampling frequency of 200 square feet from the excavation floor and sidewalls. 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 COC's as previously described.

Impacted soil removed from the Site was 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. The locations of confirmation excavation soil samples are shown in **Figure 3** in **Appendix A**. Photographic documentation of excavation and restoration 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 and/or reclamation standard. The AOC horizontal peripheries were achieved via soil samples collected from the excavation sidewalls. 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 laboratory analytical results for final confirmation excavation soil samples, WPX believes that residual soil impacts associated with the inadvertent release have been delineated, excavated, and removed from the Site. WPX believes the completed remedial actions meet the requirements set forth in NMAC 19.15.29.13 regulations in order to be protective of human health, the environment and ground water. As such, NFA appears warranted at this time and this CRR associated with Incident Number nAB1512455138 should be respectfully considered for Closure by the NMOCD.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or joseph@etechenv.com or Erick Herrera at (281) 777-4152 or erick@etechenv.com. **Appendix G** provides correspondence email notification receipts associated with the subject release.

Sincerely,
Etech Environmental and Safety Solutions, Inc.



Erick Herrera
Staff 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 A

Figures

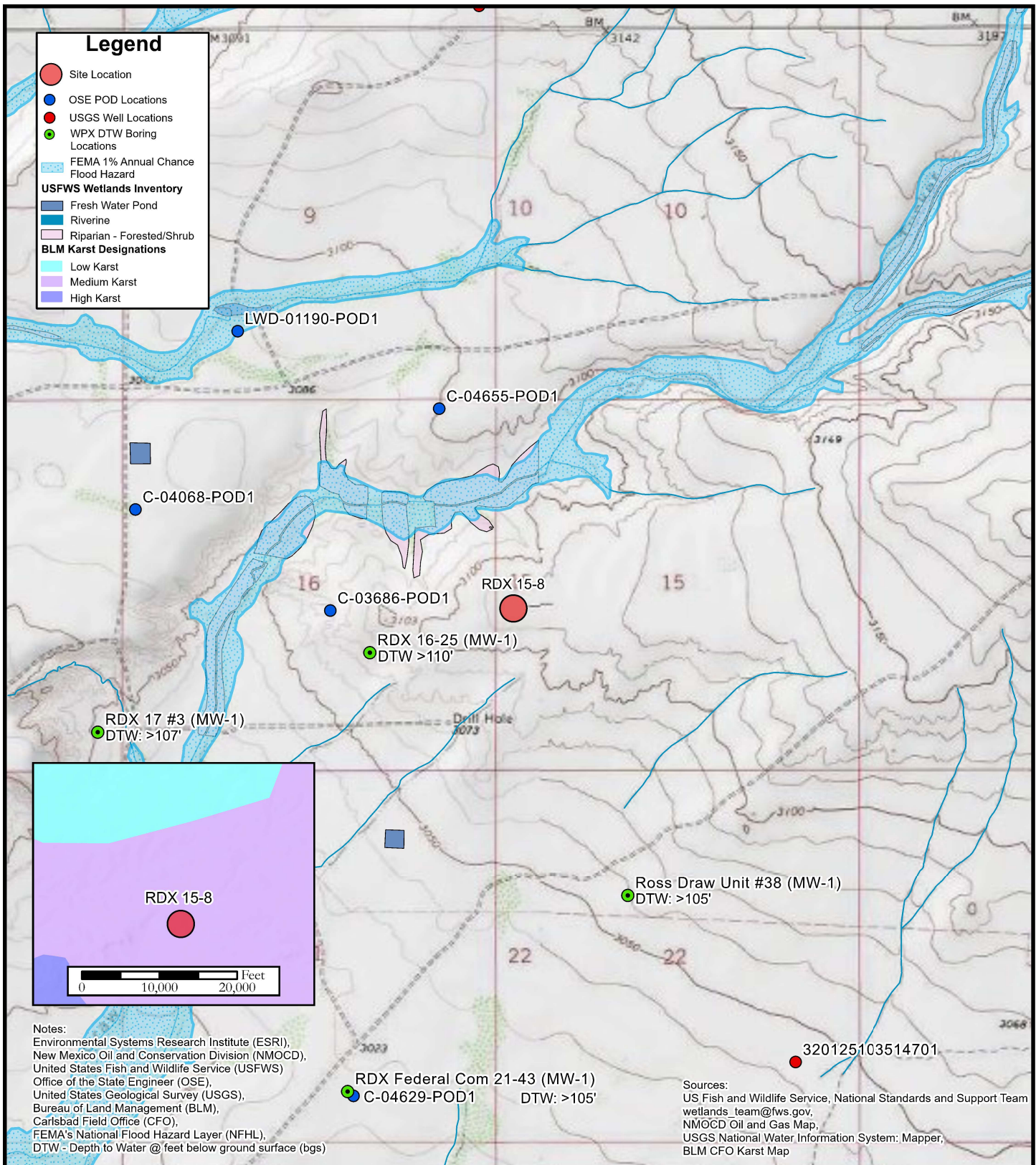


FIGURE 1

Site Map

WPX ENERGY PERMIAN, LLC
 RDX 15-8
 Unit L Sec 15 T26S R30E
 Eddy County, New Mexico

eTECH



0 1,250 2,500 Feet

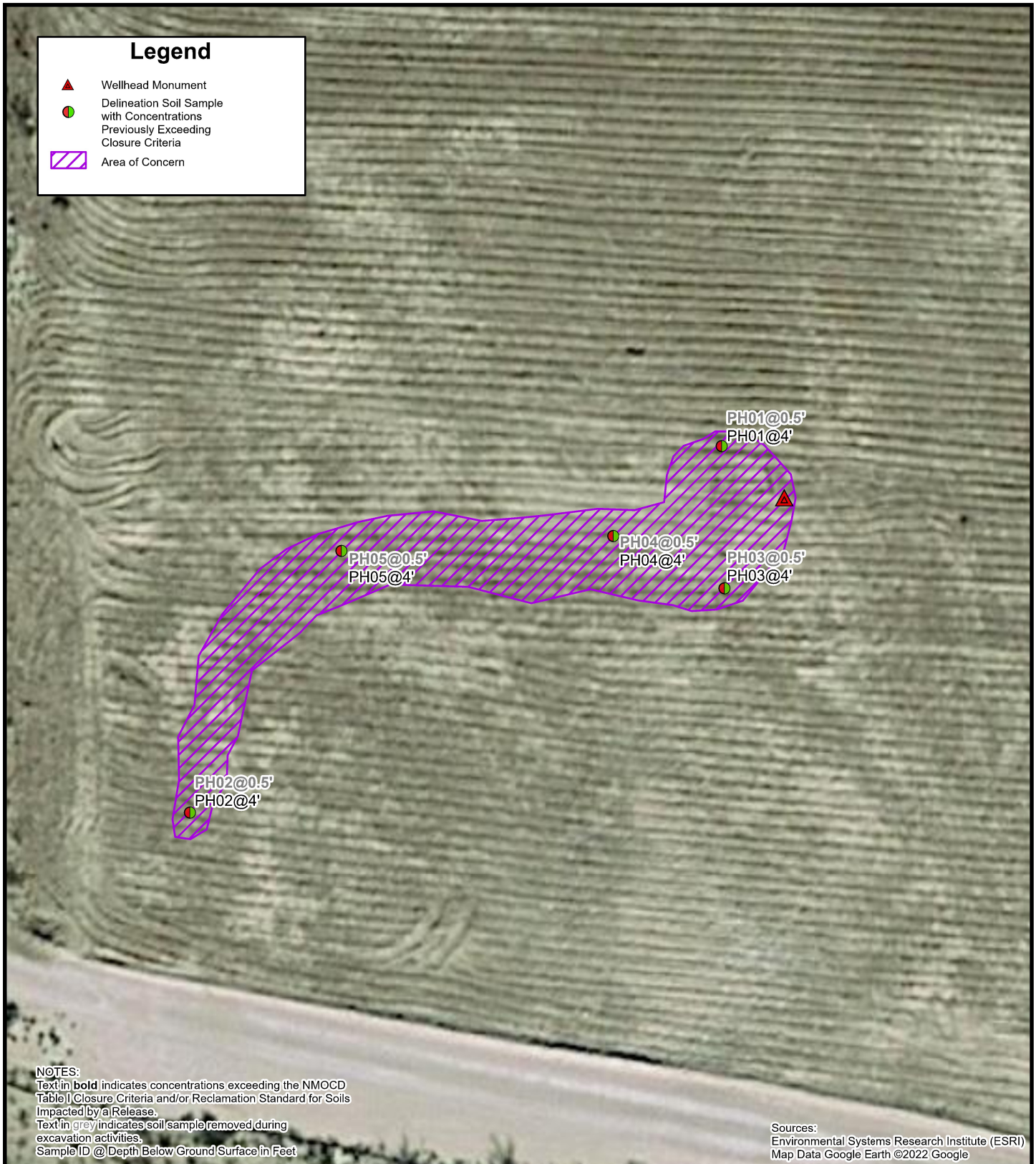
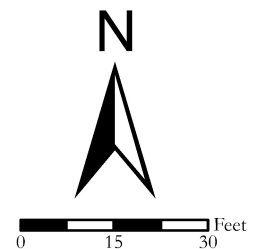


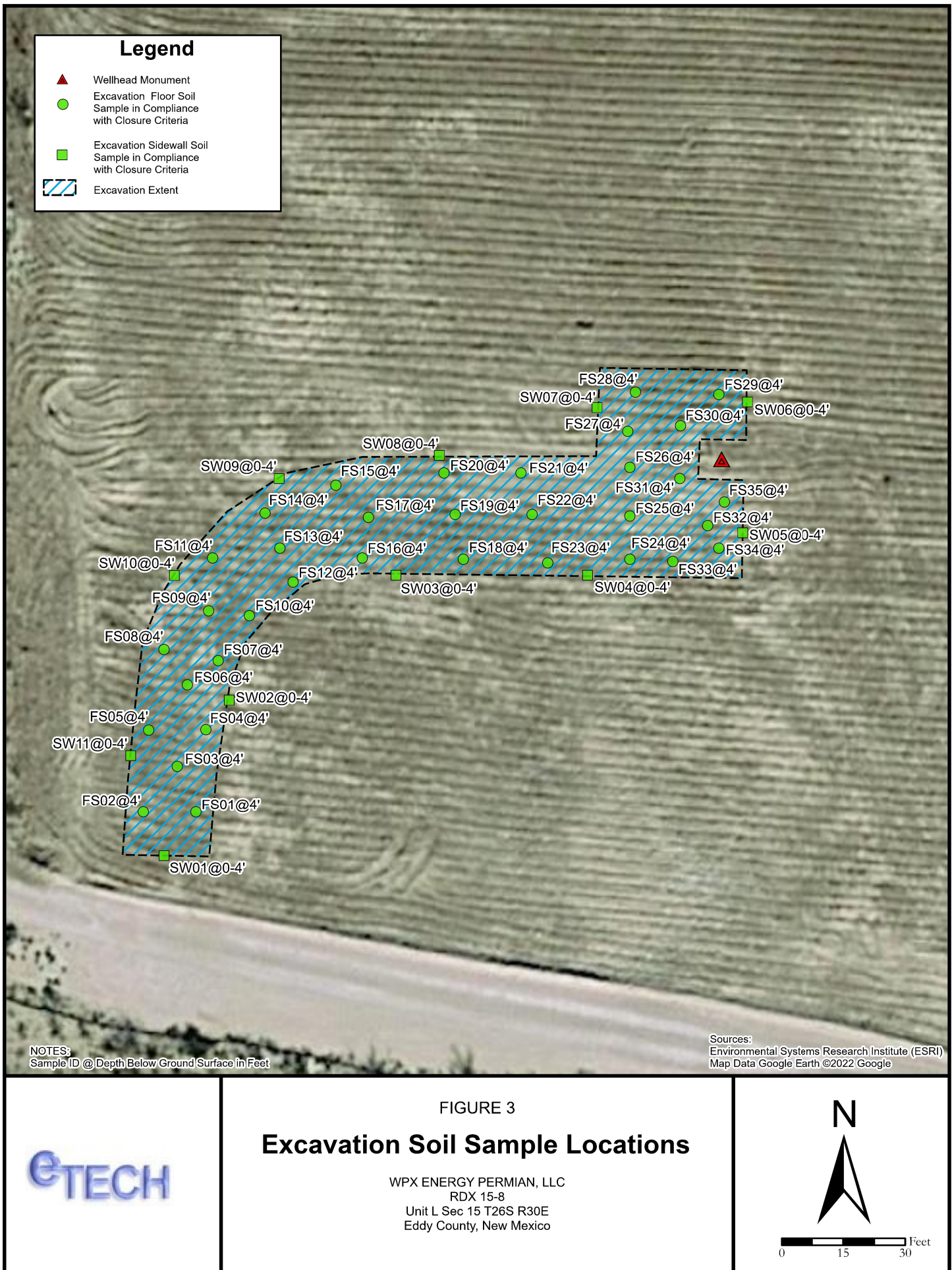
FIGURE 2

Delineation Soil Sample Locations

WPX ENERGY PERMIAN, LLC
RDX 15-8
Unit L Sec 15 T26S R30E
Eddy County, New Mexico


eTECH





APPENDIX B

Referenced Well Records

 HRL COMPLIANCE SOLUTIONS							BORING LOG/MONITORING WELL COMPLETION DIAGRAM					
							Boring/Well Number: MW-1				Location: RDX 16-25	
							Date: 12/10/2020				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: 32.0399004				
Casing Type: PVC		Diameter: 2-inch		Depth Interval: 0-105 feet bgs		Boring Total Depth (ft. BGS): 110		Longitude: -103.8833368				
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	D	N	N	NM	SW	NS	Pale orange to pink tan well graded sand with silt			
5												
10												
15												
20												
25	NM	L	D	N	N	NM	SP	NS	Pale pinky orange poorly graded fine sand			
30												
35												
40	NM	L	D	N	N	NM	SW	NS	Orange to pale red well graded sand with gravel			
45												
50	NM	L	D	N	N	NM	SP	NS	Pale pinky orange poorly graded fine sand			
55												
60	NM	L	D	N	N	NM	SP	NS	Pale pinky orange poorly graded fine sand with minor medium and coarse sand - TD: 110' bgs			
65												
70												
75												
80												
85												
90												
95												
100												
105												
110												

APPENDIX C

Soil Sampling Logs



Sample Name: PH01 Date: 07/12/2023 - 7/19/2023
 Site Name: RDX 15-8
 Incident Number: nAB1512455138
 Job Number: 18145

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Hand Auger/Backhoe

Site Coordinates: 32.0416445583352, -103.876658799956

Hole Diameter: N/A

Total Depth: 4'

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.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	4,160.8	0.0	No	PH01	0.5	0	SW-SM	(0-4') SAND, dry, brown, well graded, fine to coarse grained, no staining, no odor.
Dry	1,937.6	0.0	No		1	1		@2' Color change to Tan.
Dry	2,072.9	0.0	No		2	2		Hand auger refusal @0.5' bgs on 07/12/2023, was further advanced with a backhoe on 07/19/2023 to 6' bgs.
Dry	1,808.8	0.0	No		3	3		
Dry	828.8	0.0	No	PH01	4	4		

Total Depth



Sample Name: PH02 Date: 07/12/2023 - 7/19/2023
 Site Name: RDX 15-8
 Incident Number: nAB1512455138
 Job Number: 18145

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Hand Auger/Backhoe

Site Coordinates: 32.0416445583352, -103.876658799956

Hole Diameter: N/A

Total Depth: 4'

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.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	2,542.4	0.0	No	PH02	0.5	0	SW-SM	(0-4') SAND, dry, brown, well graded, fine to coarse grained, no staining, no odor.
Dry	2,542.4	0.0	No		1	1		@2' Color change to Tan.
Dry	1,573.6	0.0	No		2	2		Hand auger refusal @0.5' bgs on 07/12/2023, was further advanced with a backhoe on 07/19/2023 to 6' bgs.
Dry	1,691.2	0.0	No		3	3		
Dry	756.0	0.0	No	PH02	4	4		

Total Depth



Sample Name: PH03 Date: 07/12/2023 - 7/19/2023
 Site Name: RDX 15-8
 Incident Number: nAB1512455138
 Job Number: 18145

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Hand Auger/Backhoe

Site Coordinates: 32.0416445583352, -103.876658799956

Hole Diameter: N/A

Total Depth: 4'

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.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	828.8	0.0	No	PH03	0.5	0	SW-SM	(0-4') SAND, dry, brown, well graded, fine to coarse grained, no staining, no odor.
Dry	828.8	0.0	No		1	1		@2' Color change to Tan.
Dry	1,164.8	0.0	No		2	2		Hand auger refusal @0.5' bgs on 07/12/2023, was further advanced with a backhoe on 07/19/2023 to 6' bgs.
Dry	1,164.8	0.0	No		3	3		
Dry	1,573.6	0.0	No	PH03	4	4		

Total Depth



Sample Name: PH04 Date: 07/12/2023 - 7/19/2023
 Site Name: RDX 15-8
 Incident Number: nAB1512455138
 Job Number: 18145

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Hand Auger/Backhoe

Site Coordinates: 32.0416445583352, -103.876658799956

Hole Diameter: N/A

Total Depth: 4'

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.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	1,691.2	0.0	No	PH04	0.5	0	SW-SM	(0-4') SAND, dry, brown, well graded, fine to coarse grained, no staining, no odor.
Dry	442.4	0.0	No		1	1		@2' Color change to Tan.
Dry	392.0	0.0	No		2	2		Hand auger refusal @0.5' bgs on 07/12/2023, was further advanced with a backhoe on 07/19/2023 to 6' bgs.
Dry	821.6	0.0	No		3	3		
Dry	621.6	0.0	No	PH04	4	4		

Total Depth



Sample Name: PH05 Date: 07/12/2023 - 7/19/2023
 Site Name: RDX 15-8
 Incident Number: nAB1512455138
 Job Number: 18145

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Hand Auger/Backhoe

Site Coordinates: 32.0416445583352, -103.876658799956

Hole Diameter: N/A

Total Depth: 4'

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.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	2,374.4	0.0	No	PH05	0.5	0	SW-SM	(0-4') SAND, dry, brown, well graded, fine to coarse grained, no staining, no odor.
Dry	3,623.2	0.0	No		1	1		@2' Color change to Tan.
Dry	1,691.2	0.0	No		2	2		Hand auger refusal @0.5' bgs on 07/12/2023, was further advanced with a backhoe on 07/19/2023 to 6' bgs.
Dry	2,217.6	0.0	No		3	3		
Dry	1,260.0	0.0	No	PH05	4	4		

Total Depth

APPENDIX D

Photographic Log

eTECH

PHOTOGRAPHIC LOG

WPX Energy Permian, LLC

RDX 15-8

Incident Number nAB1512455138

Date & Time: Wed, Jul 12, 2023 at 09:18:07 MDT
 Position: +032.041585° / -103.876917° (±15.1ft)
 Altitude: 3116ft (±11.6ft)
 Datum: WGS-84
 Azimuth/Bearing: 215° S35W 3822mils True (±11°)
 Elevation Angle: -17.9°
 Horizon Angle: -02.9°
 Zoom: 0.5X
 RDX: 15-8



Photograph 1

Date: 07/12/2023

Description: Southwestern view of delineation activities.

Date & Time: Wed, Jul 19, 2023 at 09:46:40 MDT
 Position: +032.041586° / -103.876897° (±15.1ft)
 Altitude: 3126ft (±11.6ft)
 Datum: WGS-84
 Azimuth/Bearing: 100° S80E 1778mils True (±12°)
 Elevation Angle: -08.1°
 Horizon Angle: -00.9°
 Zoom: 0.5X
 PH05



Photograph 2

Date: 07/19/2023

Description: Southeastern view of delineation activities.

Date & Time: Wed, Sep 13, 2023 at 15:17:02 MDT
 Position: +032.041591° / -103.876620° (±15.6ft)
 Altitude: 3122ft (±11.0ft)
 Datum: WGS-84
 Azimuth/Bearing: 328° N32W 5831mils True (±12°)
 Elevation Angle: -11.4°
 Horizon Angle: -02.7°
 Zoom: 0.5X
 RDX: 15-8



Photograph 3

Date: 09/13/2023

Description: Northwestern view of final excavation.

Date & Time: Thu, Sep 28, 2023 at 12:05:26 MDT
 Position: +032.041687° / -103.876564° (±16.4ft)
 Altitude: 3110ft (±31.2ft)
 Datum: WGS-84
 Azimuth/Bearing: 232° S52W 4124mils True (±10°)
 Elevation Angle: -05.7°
 Horizon Angle: -00.0°
 Zoom: 0.5X
 rdx 15-8 backfill



Photograph 4

Date: 09/28/2023

Description: Southwestern view of restoration activities.

APPENDIX E

Tables



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
RDX 15-8
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 Number nAB1512455138										
PH01	07/12/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,540
PH01	07/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	763
PH02	07/12/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,110
PH02	07/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	653
PH03	07/12/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,460
PH03	07/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,420
PH04	07/12/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	18,700
PH04	07/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	514
PH05	07/12/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	7,150
PH05	07/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,090
Excavation Soil Samples - Incident Number nAB1512455138										
FS01	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,370
FS02	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,100
FS03	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,470
FS04	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,100
FS05	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	994
FS06	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,810
FS07	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	998
FS08	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,180
FS09	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	937
FS10	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,640
FS11	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	595
FS12	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,310
FS13	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	954
FS14	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,150



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
RDX 15-8
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
FS15	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	963
FS16	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,060
FS17	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	805
FS18	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	935
FS19	09/11/2023	4	<0.0500	<0.100	<40.0	<25.0	<50.0	<40.0	<50.0	549
FS20	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	910
FS21	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	795
FS22	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,200
FS23	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	980
FS24	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	816
FS25	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,740
FS26	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	475
FS27	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	984
FS28	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	913
FS29	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	552
FS30	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	576
FS31	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,050
FS32	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	774
FS33	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,630
FS34	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,180
FS35	09/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	213
SW01	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	<400
SW02	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	<400
SW03	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	97.2
SW04	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	158



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
RDX 15-8
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
SW05	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	152
SW06	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	443
SW07	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	<400
SW08	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	160
SW09	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	279
SW10	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	149
SW11	09/11/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<25.0	<25.0	<50.0	443

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

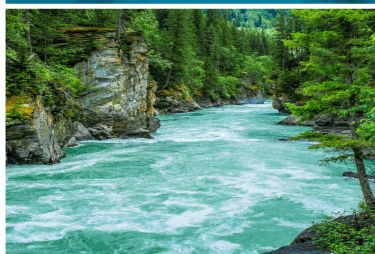
Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 15 - 8

Work Order: E307045

Job Number: 01058-0007

Received: 7/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/18/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted 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 NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/18/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 15 - 8
Workorder: E307045
Date Received: 7/13/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/13/2023 8:15:00AM, under the Project Name: RDX 15 - 8.

The analytical test results summarized in this report with the Project Name: RDX 15 - 8 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 regarding 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
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported: 07/18/23 14:02
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 0.5'	E307045-01A	Soil	07/12/23	07/13/23	Glass Jar, 2 oz.
PH02 0.5'	E307045-02A	Soil	07/12/23	07/13/23	Glass Jar, 2 oz.
PH03 0.5'	E307045-03A	Soil	07/12/23	07/13/23	Glass Jar, 2 oz.
PH04 0.5'	E307045-04A	Soil	07/12/23	07/13/23	Glass Jar, 2 oz.
PH05 0.5'	E307045-05A	Soil	07/12/23	07/13/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
7/18/2023 2:02:06PM

PH01 0.5'

E307045-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2328053	
Benzene	ND	0.0250	1	07/13/23	07/13/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/13/23	
Toluene	ND	0.0250	1	07/13/23	07/13/23	
o-Xylene	ND	0.0250	1	07/13/23	07/13/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/13/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/13/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.7 %	70-130		07/13/23	07/13/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2328053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/13/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	82.6 %	70-130		07/13/23	07/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2328063	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/23	07/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/14/23	07/17/23	
<i>Surrogate: n-Nonane</i>						
	90.0 %	50-200		07/14/23	07/17/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2328062	
Chloride	6540	400	20	07/14/23	07/17/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
7/18/2023 2:02:06PM

PH02 0.5'

E307045-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328053
Benzene	ND	0.0250	1	07/13/23	07/13/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/13/23	
Toluene	ND	0.0250	1	07/13/23	07/13/23	
o-Xylene	ND	0.0250	1	07/13/23	07/13/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/13/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/13/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.8 %	70-130		07/13/23	07/13/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328053
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/13/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	82.0 %	70-130		07/13/23	07/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2328063
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/23	07/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/14/23	07/17/23	
<i>Surrogate: n-Nonane</i>						
	90.2 %	50-200		07/14/23	07/17/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2328062
Chloride	6110	400	20	07/14/23	07/17/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
7/18/2023 2:02:06PM

PH03 0.5'

E307045-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2328053	
Benzene	ND	0.0250	1	07/13/23	07/13/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/13/23	
Toluene	ND	0.0250	1	07/13/23	07/13/23	
o-Xylene	ND	0.0250	1	07/13/23	07/13/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/13/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/13/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		07/13/23	07/13/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2328053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/13/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	81.6 %	70-130		07/13/23	07/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2328063	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/23	07/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/14/23	07/17/23	
<i>Surrogate: n-Nonane</i>						
	97.2 %	50-200		07/14/23	07/17/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2328062	
Chloride	5460	400	20	07/14/23	07/17/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
7/18/2023 2:02:06PM

PH04 0.5'

E307045-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328053
Benzene	ND	0.0250	1	07/13/23	07/13/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/13/23	
Toluene	ND	0.0250	1	07/13/23	07/13/23	
o-Xylene	ND	0.0250	1	07/13/23	07/13/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/13/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/13/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		07/13/23	07/13/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328053
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/13/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	81.9 %	70-130		07/13/23	07/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2328063
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/23	07/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/14/23	07/17/23	
<i>Surrogate: n-Nonane</i>						
	98.3 %	50-200		07/14/23	07/17/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2328062
Chloride	18700	2000	100	07/14/23	07/17/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
7/18/2023 2:02:06PM

PH05 0.5'

E307045-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328053
Benzene	ND	0.0250	1	07/13/23	07/13/23	
Ethylbenzene	ND	0.0250	1	07/13/23	07/13/23	
Toluene	ND	0.0250	1	07/13/23	07/13/23	
o-Xylene	ND	0.0250	1	07/13/23	07/13/23	
p,m-Xylene	ND	0.0500	1	07/13/23	07/13/23	
Total Xylenes	ND	0.0250	1	07/13/23	07/13/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		07/13/23	07/13/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328053
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/23	07/13/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	81.8 %	70-130		07/13/23	07/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2328063
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/23	07/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/14/23	07/17/23	
<i>Surrogate: n-Nonane</i>						
	90.0 %	50-200		07/14/23	07/17/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2328062
Chloride	7150	400	20	07/14/23	07/17/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/18/2023 2:02:06PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2328053-BLK1)

Prepared: 07/13/23 Analyzed: 07/13/23

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	7.59		8.00		94.9	70-130			

LCS (2328053-BS1)

Prepared: 07/13/23 Analyzed: 07/13/23

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	4.96	0.0250	5.00		99.2	70-130			
Toluene	5.12	0.0250	5.00		102	70-130			
o-Xylene	5.12	0.0250	5.00		102	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			

Matrix Spike (2328053-MS1)

Source: E307045-02

Prepared: 07/13/23 Analyzed: 07/13/23

Benzene	4.94	0.0250	5.00	ND	98.8	54-133			
Ethylbenzene	4.81	0.0250	5.00	ND	96.3	61-133			
Toluene	4.96	0.0250	5.00	ND	99.3	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.4	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	99.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.86		8.00		98.3	70-130			

Matrix Spike Dup (2328053-MSD1)

Source: E307045-02

Prepared: 07/13/23 Analyzed: 07/13/23

Benzene	4.97	0.0250	5.00	ND	99.5	54-133	0.724	20	
Ethylbenzene	4.84	0.0250	5.00	ND	96.8	61-133	0.585	20	
Toluene	5.00	0.0250	5.00	ND	99.9	61-130	0.617	20	
o-Xylene	5.00	0.0250	5.00	ND	100	63-131	0.629	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	0.645	20	
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131	0.640	20	
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/18/2023 2:02:06PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2328053-BLK1) Prepared: 07/13/23 Analyzed: 07/13/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.63		8.00		82.9	70-130			

LCS (2328053-BS2) Prepared: 07/13/23 Analyzed: 07/13/23

Gasoline Range Organics (C6-C10)	44.2	20.0	50.0		88.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.74		8.00		84.2	70-130			

Matrix Spike (2328053-MS2) Source: E307045-02 Prepared: 07/13/23 Analyzed: 07/13/23

Gasoline Range Organics (C6-C10)	40.5	20.0	50.0	ND	81.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.64		8.00		83.0	70-130			

Matrix Spike Dup (2328053-MSD2) Source: E307045-02 Prepared: 07/13/23 Analyzed: 07/13/23

Gasoline Range Organics (C6-C10)	44.0	20.0	50.0	ND	88.0	70-130	8.22	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.67		8.00		83.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/18/2023 2:02:06PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2328063-BLK1)

Prepared: 07/14/23 Analyzed: 07/17/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.1		50.0		94.1	50-200			

LCS (2328063-BS1)

Prepared: 07/14/23 Analyzed: 07/17/23

Diesel Range Organics (C10-C28)	277	25.0	250		111	38-132			
Surrogate: n-Nonane	50.0		50.0		100	50-200			

Matrix Spike (2328063-MS1)

Source: E307045-04

Prepared: 07/14/23 Analyzed: 07/17/23

Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.7	38-132			
Surrogate: n-Nonane	46.4		50.0		92.7	50-200			

Matrix Spike Dup (2328063-MSD1)

Source: E307045-04

Prepared: 07/14/23 Analyzed: 07/17/23

Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132	1.13	20	
Surrogate: n-Nonane	50.3		50.0		101	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/18/2023 2:02:06PM

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 (2328062-BLK1)					Prepared: 07/14/23 Analyzed: 07/17/23				
Chloride	ND	20.0							
LCS (2328062-BS1)					Prepared: 07/14/23 Analyzed: 07/17/23				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2328062-MS1)					Source: E307045-01		Prepared: 07/14/23 Analyzed: 07/17/23		
Chloride	6750	400	250	6540	83.2	80-120			
Matrix Spike Dup (2328062-MSD1)					Source: E307045-01		Prepared: 07/14/23 Analyzed: 07/17/23		
Chloride	6600	400	250	6540	23.5	80-120	2.24	20	M4

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:	RDX 15 - 8	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/18/23 14:02

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated 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.



Project Information

Chain of Custody

Client: WPX Energy Permian LLC.		Bill To		Lab Use Only		TAT		EPA Program	
Project: RDX 15-8		Attention: Jim Raley		Lab WO#		1D 2D 3D		Standard	
Project Manager: Gilbert Moreno		Address: 5315 Buena Vista Dr.		E367045		Job Number		01058-0007	
Address: 13000 W County Rd 100		City, State, Zip: Carlsbad, NM, 88220						5 day TAT	
City, State, Zip: Odessa, TX, 79765		Phone: 575-885-7502						RCRA	
Phone: (832) 541-7719		Email: jim.raley@dvn.com							
Email: Devon-team@etechnv.com		WO: N/A							
Collected by: Edyte Konan		Incident ID: nAB1512455138							

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	GDGC	TX	Remarks
10:00	7/12/2023	S	1	PH01	1	0.5'						X				
10:10	7/12/2023	S	1	PH02	2	0.5'						X				
10:20	7/12/2023	S	1	PH03	3	0.5'						X				
10:30	7/12/2023	S	1	PH04	4	0.5'						X				
10:40	7/12/2023	S	1	PH05	5	0.5'						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	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>[Signature]</i>	07/12/2023	13:30	<i>Michelle C...</i>	7/12/23	1330	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Michelle C...</i>	7-12-23	1715	<i>Aldon M...</i>	7-12-23	1715	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Aldon M...</i>	7.12.23	2245	<i>Auth Man</i>	7/13/23	8:15	

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

Printed: 7/13/2023 11:54:42AM

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:	07/13/23 08:15	Work Order ID:	E307045
Phone:	(539) 573-4018	Date Logged In:	07/13/23 08:47	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	07/19/23 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 filtration 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.

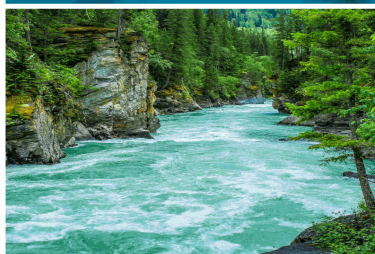
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 15 - 8

Work Order: E307118

Job Number: 01058-0007

Received: 7/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/27/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted 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 NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/27/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 15 - 8
Workorder: E307118
Date Received: 7/24/2023 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2023 5:30:00AM, under the Project Name: RDX 15 - 8.

The analytical test results summarized in this report with the Project Name: RDX 15 - 8 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 regarding 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
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported: 07/27/23 13:37
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 4'	E307118-01A	Soil	07/19/23	07/24/23	Glass Jar, 2 oz.
PH02 4'	E307118-02A	Soil	07/19/23	07/24/23	Glass Jar, 2 oz.
PH03 4'	E307118-03A	Soil	07/19/23	07/24/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
7/27/2023 1:37:54PM

PH01 4'

E307118-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2330014	
Benzene	ND	0.0250	1	07/24/23	07/26/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/26/23	
Toluene	ND	0.0250	1	07/24/23	07/26/23	
o-Xylene	ND	0.0250	1	07/24/23	07/26/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/26/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	100 %	70-130		07/24/23	07/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2330014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	82.8 %	70-130		07/24/23	07/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2330030	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/26/23	
<i>Surrogate: n-Nonane</i>						
	91.6 %	50-200		07/25/23	07/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2330038	
Chloride	763	200	10	07/25/23	07/25/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
7/27/2023 1:37:54PM

PH02 4'

E307118-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330014
Benzene	ND	0.0250	1	07/24/23	07/26/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/26/23	
Toluene	ND	0.0250	1	07/24/23	07/26/23	
o-Xylene	ND	0.0250	1	07/24/23	07/26/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/26/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.9 %	70-130		07/24/23	07/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330014
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	82.5 %	70-130		07/24/23	07/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2330030
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/26/23	
<i>Surrogate: n-Nonane</i>						
	96.9 %	50-200		07/25/23	07/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330038
Chloride	653	20.0	1	07/25/23	07/25/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
7/27/2023 1:37:54PM

PH03 4'

E307118-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330014
Benzene	ND	0.0250	1	07/24/23	07/26/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/26/23	
Toluene	ND	0.0250	1	07/24/23	07/26/23	
o-Xylene	ND	0.0250	1	07/24/23	07/26/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/26/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.9 %	70-130		07/24/23	07/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330014
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.6 %	70-130		07/24/23	07/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2330030
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/26/23	
<i>Surrogate: n-Nonane</i>						
	89.3 %	50-200		07/25/23	07/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330038
Chloride	1420	20.0	1	07/25/23	07/25/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/27/2023 1:37:54PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2330014-BLK1)

Prepared: 07/24/23 Analyzed: 07/26/23

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	7.99		8.00		99.9	70-130			

LCS (2330014-BS1)

Prepared: 07/24/23 Analyzed: 07/26/23

Benzene	4.80	0.0250	5.00		96.1	70-130			
Ethylbenzene	4.68	0.0250	5.00		93.6	70-130			
Toluene	4.83	0.0250	5.00		96.6	70-130			
o-Xylene	4.85	0.0250	5.00		97.0	70-130			
p,m-Xylene	9.69	0.0500	10.0		96.9	70-130			
Total Xylenes	14.5	0.0250	15.0		96.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.00		8.00		100	70-130			

Matrix Spike (2330014-MS1)

Source: E307118-02

Prepared: 07/24/23 Analyzed: 07/26/23

Benzene	4.75	0.0250	5.00	ND	95.0	54-133			
Ethylbenzene	4.63	0.0250	5.00	ND	92.5	61-133			
Toluene	4.78	0.0250	5.00	ND	95.5	61-130			
o-Xylene	4.79	0.0250	5.00	ND	95.8	63-131			
p,m-Xylene	9.57	0.0500	10.0	ND	95.7	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	95.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.07		8.00		101	70-130			

Matrix Spike Dup (2330014-MSD1)

Source: E307118-02

Prepared: 07/24/23 Analyzed: 07/26/23

Benzene	4.71	0.0250	5.00	ND	94.2	54-133	0.904	20	
Ethylbenzene	4.58	0.0250	5.00	ND	91.6	61-133	1.02	20	
Toluene	4.73	0.0250	5.00	ND	94.7	61-130	0.857	20	
o-Xylene	4.75	0.0250	5.00	ND	95.0	63-131	0.903	20	
p,m-Xylene	9.47	0.0500	10.0	ND	94.7	63-131	1.03	20	
Total Xylenes	14.2	0.0250	15.0	ND	94.8	63-131	0.989	20	
Surrogate: 4-Bromochlorobenzene-PID	8.07		8.00		101	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/27/2023 1:37:54PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2330014-BLK1)

Prepared: 07/24/23 Analyzed: 07/26/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.60		8.00		82.5	70-130			

LCS (2330014-BS2)

Prepared: 07/24/23 Analyzed: 07/26/23

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0		84.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.74		8.00		84.3	70-130			

Matrix Spike (2330014-MS2)

Source: E307118-02

Prepared: 07/24/23 Analyzed: 07/26/23

Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	ND	84.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.79		8.00		84.9	70-130			

Matrix Spike Dup (2330014-MSD2)

Source: E307118-02

Prepared: 07/24/23 Analyzed: 07/26/23

Gasoline Range Organics (C6-C10)	42.4	20.0	50.0	ND	84.8	70-130	0.129	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.69		8.00		83.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/27/2023 1:37:54PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2330030-BLK1)					Prepared: 07/25/23 Analyzed: 07/26/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.2		50.0		80.5	50-200			

LCS (2330030-BS1)					Prepared: 07/25/23 Analyzed: 07/26/23				
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	45.8		50.0		91.7	50-200			

Matrix Spike (2330030-MS1)					Source: E307118-03		Prepared: 07/25/23 Analyzed: 07/26/23		
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	40.7		50.0		81.5	50-200			

Matrix Spike Dup (2330030-MSD1)					Source: E307118-03		Prepared: 07/25/23 Analyzed: 07/26/23		
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132	2.05	20	
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/27/2023 1:37:54PM

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 (2330038-BLK1)					Prepared: 07/25/23 Analyzed: 07/25/23				
Chloride	ND	20.0							
LCS (2330038-BS1)					Prepared: 07/25/23 Analyzed: 07/25/23				
Chloride	261	20.0	250		105	90-110			
Matrix Spike (2330038-MS1)					Source: E307094-01		Prepared: 07/25/23 Analyzed: 07/25/23		
Chloride	274	20.0	250	ND	110	80-120			
Matrix Spike Dup (2330038-MSD1)					Source: E307094-01		Prepared: 07/25/23 Analyzed: 07/25/23		
Chloride	273	20.0	250	ND	109	80-120	0.378	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:	RDX 15 - 8	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/27/23 13:37

- 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 Attention: Jim Raley Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@dv.com WO: N/A Incident ID: nAB1512455138		Lab Use Only				TAT			EPA Program					
Project: RDX 15-8						Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno						E307118	06580007				5 day TAT							
Address: 13000 W County Rd 100						Analysis and Method								RCRA				
City, State, Zip: Odessa, TX, 79765						Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: (832) 541-7719														NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com																		
Collected by: Edyte Konan																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number								Remarks					
10:00	7/19/2023	S	1	PH01	1	4'							X					
10:10	7/19/2023	S	1	PH02	2	4'							X					
10:20	7/19/2023	S	1	PH03	3	4'							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.										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) <i>[Signature]</i> Date 07/20/2023 Time 14:20										Received by: (Signature) <i>[Signature]</i> Date 7-20-23 Time 1420								
Relinquished by: (Signature) <i>[Signature]</i> Date 7-21-23 Time 1400										Received by: (Signature) <i>[Signature]</i> Date 7-21-23 Time 1700								
Relinquished by: (Signature) <i>[Signature]</i> Date 7-21-23 Time 2300										Received by: (Signature) <i>[Signature]</i> Date 7-24-23 Time 5:30								
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

Printed: 7/24/2023 7:54:10AM

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:	07/24/23 05:30	Work Order ID:	E307118
Phone:	(539) 573-4018	Date Logged In:	07/21/23 15:40	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	07/27/23 17:00 (3 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 filtration 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.

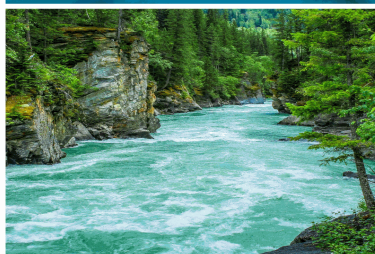
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 15 - 8

Work Order: E307117

Job Number: 01058-0007

Received: 7/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/27/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted 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 NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/27/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 15 - 8
Workorder: E307117
Date Received: 7/24/2023 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2023 5:30:00AM, under the Project Name: RDX 15 - 8.

The analytical test results summarized in this report with the Project Name: RDX 15 - 8 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 regarding 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,

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/27/23 11:29

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH04 4'	E307117-01A	Soil	07/19/23	07/24/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
7/27/2023 11:29:49AM

PH04 4'

E307117-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2330001	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	100 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2330001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	82.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2330030	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/26/23	
<i>Surrogate: n-Nonane</i>						
	88.5 %	50-200		07/25/23	07/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2330038	
Chloride	514	20.0	1	07/25/23	07/25/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/27/2023 11:29:49AM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2330001-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

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	8.10		8.00		101	70-130			

LCS (2330001-BS1)

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	4.35	0.0250	5.00		87.0	70-130			
Ethylbenzene	4.54	0.0250	5.00		90.8	70-130			
Toluene	4.58	0.0250	5.00		91.7	70-130			
o-Xylene	4.72	0.0250	5.00		94.4	70-130			
p,m-Xylene	9.42	0.0500	10.0		94.2	70-130			
Total Xylenes	14.1	0.0250	15.0		94.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.11		8.00		101	70-130			

Matrix Spike (2330001-MS1)

Source: E307117-01

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	4.42	0.0250	5.00	ND	88.5	54-133			
Ethylbenzene	4.67	0.0250	5.00	ND	93.3	61-133			
Toluene	4.70	0.0250	5.00	ND	93.9	61-130			
o-Xylene	4.86	0.0250	5.00	ND	97.1	63-131			
p,m-Xylene	9.66	0.0500	10.0	ND	96.6	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130			

Matrix Spike Dup (2330001-MSD1)

Source: E307117-01

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	4.42	0.0250	5.00	ND	88.3	54-133	0.180	20	
Ethylbenzene	4.68	0.0250	5.00	ND	93.7	61-133	0.337	20	
Toluene	4.70	0.0250	5.00	ND	94.0	61-130	0.107	20	
o-Xylene	4.86	0.0250	5.00	ND	97.3	63-131	0.152	20	
p,m-Xylene	9.71	0.0500	10.0	ND	97.1	63-131	0.491	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.1	63-131	0.378	20	
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/27/2023 11:29:49AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2330001-BLK1) Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.66		8.00		83.2	70-130			

LCS (2330001-BS2) Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.74		8.00		84.3	70-130			

Matrix Spike (2330001-MS2) Source: E307117-01 Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.71		8.00		83.8	70-130			

Matrix Spike Dup (2330001-MSD2) Source: E307117-01 Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.0	70-130	6.86	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.69		8.00		83.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/27/2023 11:29:49AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2330030-BLK1)

Prepared: 07/25/23 Analyzed: 07/26/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.2		50.0		80.5	50-200			

LCS (2330030-BS1)

Prepared: 07/25/23 Analyzed: 07/26/23

Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	45.8		50.0		91.7	50-200			

Matrix Spike (2330030-MS1)

Source: E307118-03

Prepared: 07/25/23 Analyzed: 07/26/23

Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	40.7		50.0		81.5	50-200			

Matrix Spike Dup (2330030-MSD1)

Source: E307118-03

Prepared: 07/25/23 Analyzed: 07/26/23

Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132	2.05	20	
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/27/2023 11:29:49AM

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 (2330038-BLK1)					Prepared: 07/25/23 Analyzed: 07/25/23				
Chloride	ND	20.0							
LCS (2330038-BS1)					Prepared: 07/25/23 Analyzed: 07/25/23				
Chloride	261	20.0	250		105	90-110			
Matrix Spike (2330038-MS1)					Source: E307094-01		Prepared: 07/25/23 Analyzed: 07/25/23		
Chloride	274	20.0	250	ND	110	80-120			
Matrix Spike Dup (2330038-MSD1)					Source: E307094-01		Prepared: 07/25/23 Analyzed: 07/25/23		
Chloride	273	20.0	250	ND	109	80-120	0.378	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:	RDX 15 - 8	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/27/23 11:29

- 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: RDX 15-8					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E307117		010580007					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		Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	GDOC TX	State				
Phone: (832) 541-7719					Email: jim.raley@dmv.com												NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WO: N/A																
Collected by: Edyte Konan					Incident ID: nAB1512455138												Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																
10:40	7/19/2023	S	1	PH04	1	4'									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	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>[Signature]</i>	07/20/2023	14:20	<i>[Signature]</i>	7-20-23	1420	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	7-21-23	1400	<i>[Signature]</i>	7-21-23	1100	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	7-21-23	2300	<i>[Signature]</i>	7-24-23	530	

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: 7/24/2023 7:52:01AM

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:	07/24/23 05:30	Work Order ID:	E307117
Phone:	(539) 573-4018	Date Logged In:	07/21/23 15:39	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	07/27/23 17:00 (3 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 filtration 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.

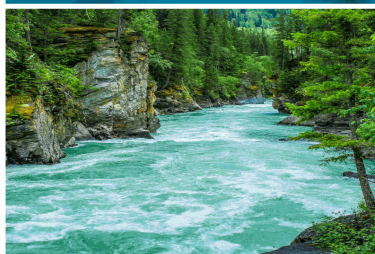
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 15 - 8

Work Order: E307120

Job Number: 01058-0007

Received: 7/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/27/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted 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 NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/27/23



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 15 - 8
Workorder: E307120
Date Received: 7/24/2023 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2023 5:30:00AM, under the Project Name: RDX 15 - 8.

The analytical test results summarized in this report with the Project Name: RDX 15 - 8 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 regarding 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,

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West Texas Midland/Odessa Area
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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/27/23 11:31

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH05 4'	E307120-01A	Soil	07/19/23	07/24/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
7/27/2023 11:31:41AM

PH05 4'

E307120-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330001
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: 4-Bromochlorobenzene-PID	99.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	82.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2330030
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/26/23	
Surrogate: n-Nonane	96.6 %	50-200		07/25/23	07/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330038
Chloride	1090	400	20	07/25/23	07/25/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/27/2023 11:31:41AM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2330001-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

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	8.10		8.00		101	70-130			

LCS (2330001-BS1)

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	4.35	0.0250	5.00		87.0	70-130			
Ethylbenzene	4.54	0.0250	5.00		90.8	70-130			
Toluene	4.58	0.0250	5.00		91.7	70-130			
o-Xylene	4.72	0.0250	5.00		94.4	70-130			
p,m-Xylene	9.42	0.0500	10.0		94.2	70-130			
Total Xylenes	14.1	0.0250	15.0		94.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.11		8.00		101	70-130			

Matrix Spike (2330001-MS1)

Source: E307117-01

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	4.42	0.0250	5.00	ND	88.5	54-133			
Ethylbenzene	4.67	0.0250	5.00	ND	93.3	61-133			
Toluene	4.70	0.0250	5.00	ND	93.9	61-130			
o-Xylene	4.86	0.0250	5.00	ND	97.1	63-131			
p,m-Xylene	9.66	0.0500	10.0	ND	96.6	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130			

Matrix Spike Dup (2330001-MSD1)

Source: E307117-01

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	4.42	0.0250	5.00	ND	88.3	54-133	0.180	20	
Ethylbenzene	4.68	0.0250	5.00	ND	93.7	61-133	0.337	20	
Toluene	4.70	0.0250	5.00	ND	94.0	61-130	0.107	20	
o-Xylene	4.86	0.0250	5.00	ND	97.3	63-131	0.152	20	
p,m-Xylene	9.71	0.0500	10.0	ND	97.1	63-131	0.491	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.1	63-131	0.378	20	
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/27/2023 11:31:41AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2330001-BLK1) Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.66		8.00		83.2	70-130			

LCS (2330001-BS2) Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.74		8.00		84.3	70-130			

Matrix Spike (2330001-MS2) Source: E307117-01 Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.71		8.00		83.8	70-130			

Matrix Spike Dup (2330001-MSD2) Source: E307117-01 Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.0	70-130	6.86	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.69		8.00		83.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/27/2023 11:31:41AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2330030-BLK1) Prepared: 07/25/23 Analyzed: 07/26/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.2		50.0		80.5	50-200			

LCS (2330030-BS1) Prepared: 07/25/23 Analyzed: 07/26/23

Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	45.8		50.0		91.7	50-200			

Matrix Spike (2330030-MS1) Source: E307118-03 Prepared: 07/25/23 Analyzed: 07/26/23

Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	40.7		50.0		81.5	50-200			

Matrix Spike Dup (2330030-MSD1) Source: E307118-03 Prepared: 07/25/23 Analyzed: 07/26/23

Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132	2.05	20	
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/27/2023 11:31:41AM

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 (2330038-BLK1)					Prepared: 07/25/23 Analyzed: 07/25/23				
Chloride	ND	20.0							
LCS (2330038-BS1)					Prepared: 07/25/23 Analyzed: 07/25/23				
Chloride	261	20.0	250		105	90-110			
Matrix Spike (2330038-MS1)					Source: E307094-01		Prepared: 07/25/23 Analyzed: 07/25/23		
Chloride	274	20.0	250	ND	110	80-120			
Matrix Spike Dup (2330038-MSD1)					Source: E307094-01		Prepared: 07/25/23 Analyzed: 07/25/23		
Chloride	273	20.0	250	ND	109	80-120	0.378	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:	RDX 15 - 8	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/27/23 11:31

- 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.



Project Information

Chain of Custody

Page 1 of

[illegible]

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) <i>[Signature]</i>	Date 07/20/2023	Time 14:20	Received by: (Signature) <i>Michelle Gungl</i>	Date 7-20-21	Time 1420	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Gungl</i>	Date 7-21-23	Time 1400	Received by: (Signature) <i>Melissa M550</i>	Date 7-21-23	Time 1400	
Relinquished by: (Signature) <i>Melissa M550</i>	Date 7-21-23	Time 2300	Received by: (Signature) <i>[Signature]</i>	Date 7-24-23	Time 5:30	
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: 7/24/2023 7:58:31AM

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:	07/24/23 05:30	Work Order ID:	E307120
Phone:	(539) 573-4018	Date Logged In:	07/21/23 15:43	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	07/27/23 17:00 (3 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 filtration 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.

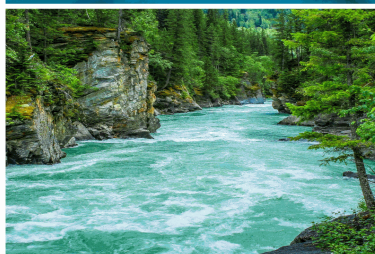
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 15 - 8

Work Order: E309100

Job Number: 01058-0007

Received: 9/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/20/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted 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 NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/20/23



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 15 - 8
Workorder: E309100
Date Received: 9/13/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/13/2023 8:15:00AM, under the Project Name: RDX 15 - 8.

The analytical test results summarized in this report with the Project Name: RDX 15 - 8 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 regarding 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

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Laboratory Administrator
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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 - 8 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 09/20/23 16:16
--	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 4'	E309100-01A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS02 4'	E309100-02A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS03 4'	E309100-03A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS04 4'	E309100-04A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS05 4'	E309100-05A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS06 4'	E309100-06A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS07 4'	E309100-07A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS08 4'	E309100-08A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS09 4'	E309100-09A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS10 4'	E309100-10A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS11 4'	E309100-11A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS12 4'	E309100-12A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS13 4'	E309100-13A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS14 4'	E309100-14A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS15 4'	E309100-15A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS16 4'	E309100-16A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS17 4'	E309100-17A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS18 4'	E309100-18A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS19 4'	E309100-19A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS20 4'	E309100-20A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS01 4'

E309100-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.6 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.9 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>						
	96.7 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338004
Chloride	2370	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS02 4'

E309100-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.0 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.8 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>						
	90.8 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338004
Chloride	1100	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS03 4'

E309100-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.1 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.6 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>						
	93.4 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338004
Chloride	2470	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS04 4'

E309100-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.9 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>						
	98.7 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338004
Chloride	1100	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS05 4'

E309100-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.4 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.1 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2337102	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>	88.0 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2338004	
Chloride	994	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS06 4'

E309100-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.9 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.6 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337102	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>						
	86.4 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2338004	
Chloride	1810	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS07 4'

E309100-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.1 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337102	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>						
	92.3 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2338004	
Chloride	998	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS08 4'

E309100-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.1 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.2 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>						
	86.6 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338004
Chloride	1180	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS09 4'

E309100-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.8 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.1 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>						
	89.0 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338004
Chloride	937	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS10 4'

E309100-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.9 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.7 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337102	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>						
	73.8 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2338004	
Chloride	1640	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS11 4'

E309100-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.5 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337102	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>						
	89.1 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2338004	
Chloride	595	20.0	1	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS12 4'

E309100-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.6 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.7 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337102	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>						
	88.8 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2338004	
Chloride	2310	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS13 4'

E309100-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.0 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.8 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2337102	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>	91.2 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2338004	
Chloride	954	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS14 4'

E309100-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.4 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337102	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>						
	90.0 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2338004	
Chloride	2150	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS15 4'

E309100-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.7 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337102	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>						
	91.9 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2338004	
Chloride	963	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS16 4'

E309100-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.2 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>						
	91.1 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338004
Chloride	2060	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS17 4'

E309100-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.9 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>						
	88.1 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338004
Chloride	805	20.0	1	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS18 4'

E309100-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337066
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337066
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.2 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2337102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>						
	89.3 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338004
Chloride	935	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS19 4'

E309100-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Benzene	ND	0.0500	2	09/13/23	09/14/23	
Ethylbenzene	ND	0.0500	2	09/13/23	09/14/23	
Toluene	ND	0.0500	2	09/13/23	09/14/23	
o-Xylene	ND	0.0500	2	09/13/23	09/14/23	
p,m-Xylene	ND	0.100	2	09/13/23	09/14/23	
Total Xylenes	ND	0.0500	2	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Gasoline Range Organics (C6-C10)	ND	40.0	2	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.5 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337102	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>						
	92.2 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2338004	
Chloride	549	20.0	1	09/18/23	09/20/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 4:16:23PM

FS20 4'

E309100-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.1 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337102	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
<i>Surrogate: n-Nonane</i>						
	90.6 %	50-200		09/15/23	09/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2338004	
Chloride	910	400	20	09/18/23	09/20/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/20/2023 4:16:23PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337066-BLK1)

Prepared: 09/13/23 Analyzed: 09/14/23

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	7.20		8.00		90.0	70-130			

LCS (2337066-BS1)

Prepared: 09/13/23 Analyzed: 09/14/23

Benzene	4.69	0.0250	5.00		93.8	70-130			
Ethylbenzene	4.57	0.0250	5.00		91.4	70-130			
Toluene	4.73	0.0250	5.00		94.5	70-130			
o-Xylene	4.67	0.0250	5.00		93.5	70-130			
p,m-Xylene	9.48	0.0500	10.0		94.8	70-130			
Total Xylenes	14.2	0.0250	15.0		94.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.6	70-130			

Matrix Spike (2337066-MS1)

Source: E309100-02

Prepared: 09/13/23 Analyzed: 09/14/23

Benzene	4.91	0.0250	5.00	ND	98.2	54-133			
Ethylbenzene	4.78	0.0250	5.00	ND	95.6	61-133			
Toluene	4.94	0.0250	5.00	ND	98.9	61-130			
o-Xylene	4.88	0.0250	5.00	ND	97.6	63-131			
p,m-Xylene	9.87	0.0500	10.0	ND	98.7	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.8	70-130			

Matrix Spike Dup (2337066-MSD1)

Source: E309100-02

Prepared: 09/13/23 Analyzed: 09/14/23

Benzene	4.78	0.0250	5.00	ND	95.5	54-133	2.78	20	
Ethylbenzene	4.66	0.0250	5.00	ND	93.1	61-133	2.60	20	
Toluene	4.81	0.0250	5.00	ND	96.3	61-130	2.67	20	
o-Xylene	4.76	0.0250	5.00	ND	95.2	63-131	2.51	20	
p,m-Xylene	9.64	0.0500	10.0	ND	96.4	63-131	2.45	20	
Total Xylenes	14.4	0.0250	15.0	ND	96.0	63-131	2.47	20	
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/20/2023 4:16:23PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337066-BLK1) Prepared: 09/13/23 Analyzed: 09/14/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.83		8.00		85.3	70-130			

LCS (2337066-BS2) Prepared: 09/13/23 Analyzed: 09/14/23

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.3	70-130			

Matrix Spike (2337066-MS2) Source: E309100-02 Prepared: 09/13/23 Analyzed: 09/14/23

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.88		8.00		86.0	70-130			

Matrix Spike Dup (2337066-MSD2) Source: E309100-02 Prepared: 09/13/23 Analyzed: 09/14/23

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.7	70-130	3.55	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.93		8.00		86.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/20/2023 4:16:23PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337102-BLK1)					Prepared: 09/15/23 Analyzed: 09/16/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.0		50.0		106	50-200			

LCS (2337102-BS1)					Prepared: 09/15/23 Analyzed: 09/16/23				
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			

Matrix Spike (2337102-MS1)					Source: E309100-05		Prepared: 09/15/23 Analyzed: 09/16/23		
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	41.7		50.0		83.4	50-200			

Matrix Spike Dup (2337102-MSD1)					Source: E309100-05		Prepared: 09/15/23 Analyzed: 09/16/23		
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132	0.696	20	
Surrogate: n-Nonane	40.9		50.0		81.9	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/20/2023 4:16:23PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2338004-BLK1)					Prepared: 09/18/23 Analyzed: 09/19/23				
Chloride	ND	20.0							
LCS (2338004-BS1)					Prepared: 09/18/23 Analyzed: 09/19/23				
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2338004-MS1)					Source: E309100-01		Prepared: 09/18/23 Analyzed: 09/19/23		
Chloride	2900	400	250	2370	213	80-120			M5
Matrix Spike Dup (2338004-MSD1)					Source: E309100-01		Prepared: 09/18/23 Analyzed: 09/19/23		
Chloride	3380	400	250	2370	405	80-120	15.2	20	M5

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:	RDX 15 - 8	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/20/23 16:16

- 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.
- 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.

Released to Imaging: 10/17/2023 11:47:15 AM

Received by OCD: 9/29/2023 1:08:59 PM

Project Information

Chain of Custody

Client: WPX Energy Permian LLC.		Bill To		Lab Use Only				TAT				EPA Program	
Project: RDX 15-8		Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno		Address: 5315 Buena Vista Dr.		E309100		01058-0607					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											
Email: Devon-team@etechnv.com		WO: 21204777										State	
Collected by: Edyte Konan		Incident ID: nAB1512455138										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
8:50	9/11/2023	S	1	FS01	1	4'						X				
9:00	9/11/2023	S	1	FS02	2	4'						X				
9:10	9/11/2023	S	1	FS03	3	4'						X				
9:20	9/11/2024	S	1	FS04	4	4'						X				
9:30	9/11/2023	S	1	FS05	5	4'						X				
9:40	9/11/2025	S	1	FS06	6	4'						X				
9:50	9/11/2023	S	1	FS07	7	4'						X				
10:00	9/11/2026	S	1	FS08	8	4'						X				
10:10	9/11/2023	S	1	FS09	9	4'						X				
10:20	9/11/2027	S	1	FS10	10	4'						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.

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 Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>[Signature]</i>	09/12/2023	0800	<i>[Signature]</i>	9-12-23	0800	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	9-12-23	1600	<i>[Signature]</i>	9-12-23	1900	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	9-13-23	0130	<i>[Signature]</i>	9-13-23	8:15	

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.



Released to Imaging: 10/17/2023 11:47:15 AM

Received by OCD: 9/29/2023 1:08:59 PM

Project Information

Chain of Custody

Client: WPX Energy Permian LLC.		Bill To		Lab Use Only		TAT		EPA Program	
Project: RDX 15-8		Attention: Jim Raley		Lab WO#		1D 2D 3D		CWA SDWA	
Project Manager: Gilbert Moreno		Address: 5315 Buena Vista Dr.		E309160		Job Number 01058-0007		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							
Email: Devon-team@etechnv.com		WO: 21204777							
Collected by: Edyte Konan		Incident ID: nAB1512455138							

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	TX	GDGC	Remarks
10:30	9/11/2023	S	1	FS11	11	4'						X				
10:40	9/11/2023	S	1	FS12	12	4'						X				
10:50	9/11/2023	S	1	FS13	13	4'						X				
11:00	9/11/2024	S	1	FS14	14	4'						X				
11:10	9/11/2023	S	1	FS15	15	4'						X				
11:20	9/11/2025	S	1	FS16	16	4'						X				
11:30	9/11/2023	S	1	FS17	17	4'						X				
11:40	9/11/2026	S	1	FS18	18	4'						X				
11:50	9/11/2023	S	1	FS19	19	4'						X				
12:00	9/11/2027	S	1	FS20	20	4'						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.

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 Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>[Signature]</i>	9/12/2023	0800	<i>[Signature]</i>	9-12-23	0800	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	9-12-23	1600	<i>[Signature]</i>	9-12-23	1900	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	9-13-23	0130	<i>[Signature]</i>	9-13-23	8:15	

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

Printed: 9/13/2023 10:26:18AM

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:	09/13/23 08:15	Work Order ID:	E309100
Phone:	(539) 573-4018	Date Logged In:	09/12/23 14:40	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	09/19/23 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Project RDX 15-8 has been separated into 2 reports due to sample volume. Workorders are as follows: E309100 & E309101.

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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 filtration 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

Client: WPX Energy Permian LLC.				Bill To		Lab Use Only				TAT				EPA Program					
Project: RDX 15-8				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E309100		01058-0007					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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM	BGDOC	TX	State				
Phone: (832)541-7719				Email: jim.raley@divn.com											NM	CO	UT	AZ	TX
Email: Devon-team@etechenv.com				WO: 21204777															
Collected by: Edyte Konan				Incident ID: nAB1512455138															
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks					
8:50	9/11/2023	S	1	FS01	1	4'						X			Corrected Sample dates per Gilbert 9/18/23 CM				
9:00	9/11/2023	S	1	FS02	2	4'						X							
9:10	9/11/2023	S	1	FS03	3	4'						X							
9:20	9/11/2023	S	1	FS04	4	4'						X							
9:30	9/11/2023	S	1	FS05	5	4'						X							
9:40	9/11/2023	S	1	FS06	6	4'						X							
9:50	9/11/2023	S	1	FS07	7	4'						X							
10:00	9/11/2023	S	1	FS08	8	4'						X							
10:10	9/11/2023	S	1	FS09	9	4'						X							
10:20	9/11/2023	S	1	FS10	10	4'						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.										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											
<i>[Signature]</i>		09/12/2023	0800	<i>[Signature]</i>		9-12-23	0800	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
<i>[Signature]</i>		9-12-23	1600	<i>[Signature]</i>		9-12-23	1900												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
<i>[Signature]</i>		9-13-23	0130	<i>[Signature]</i>		9-13-23	8:15	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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Project Information

Chain of Custody

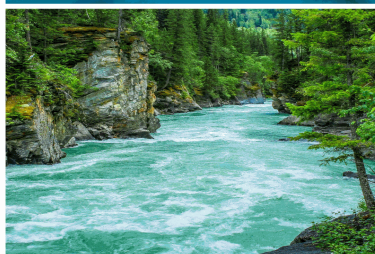
Client: WPX Energy Permian LLC.				Bill To		Lab Use Only				TAT				EPA Program						
Project: RDX 15-8				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E309100		01058-0007					5 day TAT							
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220		Analysis and Method									RCRA					
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM	BGDOC	TX	GDOC	State				
Phone: (832)541-7719				Email: jim.raley@dvu.com												NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WO: 21204777																
Collected by: Edyte Konan				Incident ID: nAB1512455138												Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
10:30	9/11/2023	S	1	FS11	11	4'							X							
10:40	9/11/2023	S	1	FS12	12	4'							X							
10:50	9/11/2023	S	1	FS13	13	4'							X							
11:00	9/11/2023	S	1	FS14	14	4'							X							
11:10	9/11/2023	S	1	FS15	15	4'							X							
11:20	9/11/2023	S	1	FS16	16	4'							X							
11:30	9/11/2023	S	1	FS17	17	4'							X							
11:40	9/11/2023	S	1	FS18	18	4'							X							
11:50	9/11/2023	S	1	FS19	19	4'							X							
12:00	9/11/2023	S	1	FS20	20	4'							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.										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.										
Sampled by:																				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only												
<i>[Signature]</i>		09/12/2023	0800	<i>[Signature]</i>		9-12-23	0800	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____												
<i>[Signature]</i>		9-12-23	1600	<i>[Signature]</i>		9-12-23	1900													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>												
<i>[Signature]</i>		9-13-23	0130	<i>[Signature]</i>		9-13-23	8:15													
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



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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 15 - 8

Work Order: E309101

Job Number: 01058-0007

Received: 9/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/20/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted 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 NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/20/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 15 - 8
Workorder: E309101
Date Received: 9/13/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/13/2023 8:15:00AM, under the Project Name: RDX 15 - 8.

The analytical test results summarized in this report with the Project Name: RDX 15 - 8 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 regarding 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
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Alexa Michaels
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Technical Representative/Client Services
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ljjarboe@envirotech-inc.com

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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 - 8 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 09/20/23 15:42
--	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS21 4'	E309101-01A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS22 4'	E309101-02A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS23 4'	E309101-03A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS24 4'	E309101-04A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS25 4'	E309101-05A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS26 4'	E309101-06A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS27 4'	E309101-07A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS28 4'	E309101-08A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS29 4'	E309101-09A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS30 4'	E309101-10A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS31 4'	E309101-11A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS32 4'	E309101-12A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS33 4'	E309101-13A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS34 4'	E309101-14A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
FS35 4'	E309101-15A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 3:42:00PM

FS21 4'

E309101-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: Bromofluorobenzene	109 %	70-130		09/13/23	09/14/23	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		09/13/23	09/14/23	
Surrogate: Toluene-d8	103 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: Bromofluorobenzene	109 %	70-130		09/13/23	09/14/23	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		09/13/23	09/14/23	
Surrogate: Toluene-d8	103 %	70-130		09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/18/23	
Surrogate: n-Nonane	92.3 %	50-200		09/15/23	09/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338005
Chloride	795	200	10	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 3:42:00PM

FS22 4'

E309101-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: Bromofluorobenzene		104 %	70-130	09/13/23	09/14/23	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	09/13/23	09/14/23	
Surrogate: Toluene-d8		101 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: Bromofluorobenzene		104 %	70-130	09/13/23	09/14/23	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	09/13/23	09/14/23	
Surrogate: Toluene-d8		101 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/18/23	
Surrogate: n-Nonane		88.0 %	50-200	09/15/23	09/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338005
Chloride	2200	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 3:42:00PM

FS23 4'

E309101-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Benzene	ND	0.0250	1	09/13/23	09/14/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/14/23	
Toluene	ND	0.0250	1	09/13/23	09/14/23	
o-Xylene	ND	0.0250	1	09/13/23	09/14/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/14/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/14/23	
Surrogate: Bromofluorobenzene		105 %	70-130	09/13/23	09/14/23	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	09/13/23	09/14/23	
Surrogate: Toluene-d8		101 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/14/23	
Surrogate: Bromofluorobenzene		105 %	70-130	09/13/23	09/14/23	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	09/13/23	09/14/23	
Surrogate: Toluene-d8		101 %	70-130	09/13/23	09/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/18/23	
Surrogate: n-Nonane		83.0 %	50-200	09/15/23	09/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338005
Chloride	980	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 3:42:00PM

FS24 4'

E309101-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		107 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		101 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		107 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		101 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/18/23	
Surrogate: n-Nonane		86.1 %	50-200	09/15/23	09/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338005
Chloride	816	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 3:42:00PM

FS25 4'

E309101-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		108 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		102 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		108 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		102 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/18/23	
Surrogate: n-Nonane		87.4 %	50-200	09/15/23	09/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338005
Chloride	1740	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 3:42:00PM

FS26 4'

E309101-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		105 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		101 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		105 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		101 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/18/23	
Surrogate: n-Nonane		84.8 %	50-200	09/15/23	09/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338005
Chloride	475	400	20	09/18/23	09/20/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 3:42:00PM

FS27 4'

E309101-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		108 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		100 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		108 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		100 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/19/23	
Surrogate: n-Nonane		84.7 %	50-200	09/15/23	09/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338005
Chloride	984	400	20	09/18/23	09/20/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 3:42:00PM

FS28 4'

E309101-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		108 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		102 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		108 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		102 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/19/23	
Surrogate: n-Nonane		89.7 %	50-200	09/15/23	09/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338005
Chloride	913	400	20	09/18/23	09/20/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 3:42:00PM

FS29 4'

E309101-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		108 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		102 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		108 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		102 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/19/23	
Surrogate: n-Nonane		91.1 %	50-200	09/15/23	09/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338005
Chloride	552	20.0	1	09/18/23	09/20/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 3:42:00PM

FS30 4'

E309101-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		107 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		101 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		107 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		101 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/19/23	
Surrogate: n-Nonane		83.2 %	50-200	09/15/23	09/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338005
Chloride	576	20.0	1	09/18/23	09/20/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 3:42:00PM

FS31 4'

E309101-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		110 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		103 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		110 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		103 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/19/23	
Surrogate: n-Nonane		86.9 %	50-200	09/15/23	09/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338005
Chloride	2050	400	20	09/18/23	09/20/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 3:42:00PM

FS32 4'

E309101-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		106 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		100 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		106 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		100 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/19/23	
Surrogate: n-Nonane		96.5 %	50-200	09/15/23	09/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338005
Chloride	774	20.0	1	09/18/23	09/20/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 3:42:00PM

FS33 4'

E309101-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		106 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		99.8 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		106 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		99.8 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/19/23	
Surrogate: n-Nonane		90.6 %	50-200	09/15/23	09/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338005
Chloride	1630	400	20	09/18/23	09/20/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 3:42:00PM

FS34 4'

E309101-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		106 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		101 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		106 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		101 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/19/23	
Surrogate: n-Nonane		87.6 %	50-200	09/15/23	09/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338005
Chloride	1180	200	10	09/18/23	09/20/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 3:42:00PM

FS35 4'

E309101-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		106 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		101 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337059
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
Surrogate: Bromofluorobenzene		106 %	70-130	09/13/23	09/15/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	09/13/23	09/15/23	
Surrogate: Toluene-d8		101 %	70-130	09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337103
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/19/23	
Surrogate: n-Nonane		84.0 %	50-200	09/15/23	09/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338005
Chloride	213	40.0	2	09/18/23	09/20/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/20/2023 3:42:00PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2337059-BLK1)

Prepared: 09/13/23 Analyzed: 09/14/23

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: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.1	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

LCS (2337059-BS1)

Prepared: 09/13/23 Analyzed: 09/14/23

Benzene	2.42	0.0250	2.50		96.6	70-130			
Ethylbenzene	2.45	0.0250	2.50		97.9	70-130			
Toluene	2.39	0.0250	2.50		95.7	70-130			
o-Xylene	2.43	0.0250	2.50		97.3	70-130			
p,m-Xylene	4.78	0.0500	5.00		95.5	70-130			
Total Xylenes	7.21	0.0250	7.50		96.1	70-130			
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike (2337059-MS1)

Source: E309096-01

Prepared: 09/13/23 Analyzed: 09/14/23

Benzene	2.58	0.0250	2.50	ND	103	48-131			
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135			
Toluene	2.48	0.0250	2.50	ND	99.2	48-130			
o-Xylene	2.54	0.0250	2.50	ND	102	43-135			
p,m-Xylene	4.99	0.0500	5.00	ND	99.9	43-135			
Total Xylenes	7.53	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			

Matrix Spike Dup (2337059-MSD1)

Source: E309096-01

Prepared: 09/13/23 Analyzed: 09/14/23

Benzene	2.59	0.0250	2.50	ND	104	48-131	0.426	23	
Ethylbenzene	2.59	0.0250	2.50	ND	104	45-135	1.77	27	
Toluene	2.52	0.0250	2.50	ND	101	48-130	1.62	24	
o-Xylene	2.67	0.0250	2.50	ND	107	43-135	5.09	27	
p,m-Xylene	5.27	0.0500	5.00	ND	105	43-135	5.36	27	
Total Xylenes	7.94	0.0250	7.50	ND	106	43-135	5.27	27	
Surrogate: Bromofluorobenzene	0.534		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/20/2023 3:42:00PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337059-BLK1)

Prepared: 09/13/23 Analyzed: 09/14/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.1	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

LCS (2337059-BS2)

Prepared: 09/13/23 Analyzed: 09/14/23

Gasoline Range Organics (C6-C10)	45.9	20.0	50.0		91.8	70-130			
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

Matrix Spike (2337059-MS2)

Source: E309096-01

Prepared: 09/13/23 Analyzed: 09/14/23

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130			
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.8	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

Matrix Spike Dup (2337059-MSD2)

Source: E309096-01

Prepared: 09/13/23 Analyzed: 09/14/23

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130	0.731	20	
Surrogate: Bromofluorobenzene	0.547		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/20/2023 3:42:00PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337103-BLK1)					Prepared: 09/15/23 Analyzed: 09/18/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.7		50.0		89.3	50-200			

LCS (2337103-BS1)					Prepared: 09/15/23 Analyzed: 09/18/23				
Diesel Range Organics (C10-C28)	237	25.0	250		94.9	38-132			
Surrogate: n-Nonane	43.5		50.0		87.0	50-200			

Matrix Spike (2337103-MS1)					Source: E309101-11		Prepared: 09/15/23 Analyzed: 09/18/23		
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.6	38-132			
Surrogate: n-Nonane	39.3		50.0		78.5	50-200			

Matrix Spike Dup (2337103-MSD1)					Source: E309101-11		Prepared: 09/15/23 Analyzed: 09/18/23		
Diesel Range Organics (C10-C28)	240	25.0	250	ND	96.0	38-132	1.52	20	
Surrogate: n-Nonane	40.2		50.0		80.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/20/2023 3:42:00PM

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 (2338005-BLK1)					Prepared: 09/18/23 Analyzed: 09/19/23				
Chloride	ND	20.0							
LCS (2338005-BS1)					Prepared: 09/18/23 Analyzed: 09/19/23				
Chloride	268	20.0	250		107	90-110			
Matrix Spike (2338005-MS1)					Source: E309101-01		Prepared: 09/18/23 Analyzed: 09/19/23		
Chloride	1270	200	250	795	190	80-120			M5
Matrix Spike Dup (2338005-MSD1)					Source: E309101-01		Prepared: 09/18/23 Analyzed: 09/19/23		
Chloride	1300	200	250	795	203	80-120	2.52	20	M5

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:	RDX 15 - 8	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/20/23 15:42

- 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.



Project Information

Chain of Custody

Client: WPX Energy Permian LLC.	Bill To	Lab Use Only	TAT	EPA Program
Project: RDX 15-8	Attention: Jim Raley	Lab WO#	1D 2D 3D Standard	CWA SDWA
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.	E309101	01058-0007	5 day TAT
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	Analysis and Method		
City, State, Zip: Odessa, TX, 79765	Phone: 575-885-7502	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021
Phone: (832)541-7719	Email: jim.raley@dv.com	VOC by 8260	Metals 6010	Chloride 300.0
Email: Devon-team@etechnv.com	WO: 21204777	BGDOC NM	GDOC TX	State
Collected by: Edyte Konan	Incident ID: nAB1512455138	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
12:10	9/11/2023	S	1	FS21	1	4'						X		
12:20	9/11/2023	S	1	FS22	2	4'						X		
12:30	9/11/2023	S	1	FS23	3	4'						X		
12:40	9/11/2024	S	1	FS24	4	4'						X		
12:50	9/11/2023	S	1	FS25	5	4'						X		
13:00	9/11/2025	S	1	FS26	6	4'						X		
13:10	9/11/2023	S	1	FS27	7	4'						X		
13:20	9/11/2026	S	1	FS28	8	4'						X		
13:30	9/11/2023	S	1	FS29	9	4'						X		
13:40	9/11/2027	S	1	FS30	10	4'						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	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>[Signature]</i>	9/12/2023	08:00	<i>Michelle Raley</i>	9-12-23	0800	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Michelle Raley</i>	9-12-23	1600	<i>Andrew Messo</i>	9-12-23	1900	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Andrew Messo</i>	9-13-23	0130	<i>Carla Manno</i>	9-13-23	8:15	

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

Page 27 of 30

Envirotech Analytical Laboratory

Printed: 9/13/2023 10:29:16AM

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:	09/13/23 08:15	Work Order ID:	E309101
Phone:	(539) 573-4018	Date Logged In:	09/12/23 14:42	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	09/19/23 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Project RDX 15-8 has been separated into 2 reports due to sample volume. Workorders are as follows: E309100 & E309101.

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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 filtration 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

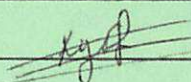
Client: WPX Energy Permian LLC.				Bill To		Lab Use Only				TAT				EPA Program																																																																																																								
Project: RDX 15-8				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA																																																																																																							
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E309101		01058-0007					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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM	BGDOC	TX	State																																																																																																							
Phone: (832)541-7719				Email: jim.raley@divn.com											NM	CO	UT	AZ	TX																																																																																																			
Email: Devon-team@etechenv.com				WO: 21204777																																																																																																																		
Collected by: Edyte Konan				Incident ID: nAB1512455138																																																																																																																		
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	NM	BGDOC	TX	Remarks																																																																																																							
12:10	9/11/2023	S	1	FS21	1	4'							X		Corrected																																																																																																							
12:20	9/11/2023	S	1	FS22	2	4'							X		sample dates																																																																																																							
12:30	9/11/2023	S	1	FS23	3	4'							X		per Gilbert.																																																																																																							
12:40	9/11/2023	S	1	FS24	4	4'							X		9/18/23 ou																																																																																																							
12:50	9/11/2023	S	1	FS25	5	4'							X																																																																																																									
13:00	9/11/2023	S	1	FS26	6	4'							X																																																																																																									
13:10	9/11/2023	S	1	FS27	7	4'							X																																																																																																									
13:20	9/11/2023	S	1	FS28	8	4'							X																																																																																																									
13:30	9/11/2023	S	1	FS29	9	4'							X																																																																																																									
13:40	9/11/2023	S	1	FS30	10	4'							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.																																																																																																																						
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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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Project Information

Chain of Custody

Client: WPX Energy Permian LLC.					Bill To		Lab Use Only						TAT				EPA Program			
Project: RDX 15-8					Attention: Jim Raley		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E309101		01058-0007							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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	State					
Phone: (832)541-7719					Email: jim.raley@divn.com										NM	CO	UT	AZ	TX	
Email: Devon-team@etechnv.com					WO: 21204777															
Collected by: Edyte Konan					Incident ID: nAB1512455138															
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												Remarks			
13:50	9/11/2023	S	1	FS31	11	4'							X							
14:00	9/11/2023	S	1	FS32	12	4'							X							
14:10	9/11/2023	S	1	FS33	13	4'							X							
14:20	9/11/2023	S	1	FS34	14	4'							X							
14:30	9/11/2023	S	1	FS35	15	4'							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.																				
<div style="display: flex; justify-content: space-between;"> <div> <p>Sampled by:</p> <p>Relinquished by: (Signature) <u>[Signature]</u> Date <u>09/12/2023</u> Time <u>08:00</u></p> <p>Relinquished by: (Signature) <u>Michelle Cenzule</u> Date <u>9-12-23</u> Time <u>1600</u></p> <p>Relinquished by: (Signature) <u>Andra Messo</u> Date <u>9-13-23</u> Time <u>0130</u></p> </div> <div> <p>Received by: (Signature) <u>Michelle Cenzule</u> Date <u>9-12-23</u> Time <u>0800</u></p> <p>Received by: (Signature) <u>Andra Messo</u> Date <u>9-12-23</u> Time <u>1900</u></p> <p>Received by: (Signature) <u>Carth Man</u> Date <u>9-13-23</u> Time <u>8:15</u></p> </div> <div> <p>Lab Use Only</p> <p>Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N</p> <p>T1 _____ T2 _____ T3 _____</p> <p>AVG Temp °C <u>4</u></p> </div> </div>																				
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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: RDX 15 - 8

Work Order: E309102

Job Number: 01058-0007

Received: 9/13/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/20/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted 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 NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/20/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 15 - 8
Workorder: E309102
Date Received: 9/13/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/13/2023 8:15:00AM, under the Project Name: RDX 15 - 8.

The analytical test results summarized in this report with the Project Name: RDX 15 - 8 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 regarding 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
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Alexa Michaels
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Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

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Technical Representative/Client Services
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Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 15 - 8 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 09/20/23 10:02
--	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 0-4'	E309102-01A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
SW02 0-4'	E309102-02A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
SW03 0-4'	E309102-03A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
SW04 0-4'	E309102-04A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
SW05 0-4'	E309102-05A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
SW06 0-4'	E309102-06A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
SW07 0-4'	E309102-07A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
SW08 0-4'	E309102-08A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
SW09 0-4'	E309102-09A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
SW10 0-4'	E309102-10A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.
SW11 0-4'	E309102-11A	Soil	09/11/23	09/13/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 10:02:44AM

SW01 0-4'

E309102-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337067	
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337077	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
<i>Surrogate: n-Nonane</i>						
	96.1 %	50-200		09/14/23	09/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2338006	
Chloride	ND	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 10:02:44AM

SW02 0-4'

E309102-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337067
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2337077
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
<i>Surrogate: n-Nonane</i>						
	93.9 %	50-200		09/14/23	09/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338006
Chloride	ND	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 10:02:44AM

SW03 0-4'

E309102-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2337067	
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.5 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2337067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.8 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2337077	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
<i>Surrogate: n-Nonane</i>	89.5 %	50-200		09/14/23	09/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2338006	
Chloride	97.2	20.0	1	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 10:02:44AM

SW04 0-4'

E309102-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337067	
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337077	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
<i>Surrogate: n-Nonane</i>						
	91.3 %	50-200		09/14/23	09/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2338006	
Chloride	158	20.0	1	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 10:02:44AM

SW05 0-4'

E309102-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337067
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2337077
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
<i>Surrogate: n-Nonane</i>						
	90.2 %	50-200		09/14/23	09/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338006
Chloride	152	20.0	1	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 10:02:44AM

SW06 0-4'

E309102-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337067	
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2337067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2337077	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
<i>Surrogate: n-Nonane</i>						
	68.7 %	50-200		09/14/23	09/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2338006	
Chloride	443	200	10	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 10:02:44AM

SW07 0-4'

E309102-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337067
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.3 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2337077
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		09/14/23	09/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338006
Chloride	ND	400	20	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 10:02:44AM

SW08 0-4'

E309102-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337067
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.3 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2337077
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/14/23	
<i>Surrogate: n-Nonane</i>						
	90.0 %	50-200		09/14/23	09/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338006
Chloride	160	20.0	1	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 10:02:44AM

SW09 0-4'

E309102-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2337067	
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.3 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2337067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.1 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2337077	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/15/23	
<i>Surrogate: n-Nonane</i>	130 %	50-200		09/14/23	09/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2338006	
Chloride	279	200	10	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 10:02:44AM

SW10 0-4'

E309102-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337067
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.6 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2337067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2337077
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/15/23	
<i>Surrogate: n-Nonane</i>						
	92.4 %	50-200		09/14/23	09/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338006
Chloride	149	20.0	1	09/18/23	09/19/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: RDX 15 - 8
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
9/20/2023 10:02:44AM

SW11 0-4'

E309102-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337067
Benzene	ND	0.0250	1	09/13/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/13/23	09/15/23	
Toluene	ND	0.0250	1	09/13/23	09/15/23	
o-Xylene	ND	0.0250	1	09/13/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/13/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/13/23	09/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.2 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/23	09/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.3 %	70-130		09/13/23	09/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2337077
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/23	09/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/14/23	09/15/23	
<i>Surrogate: n-Nonane</i>						
	95.0 %	50-200		09/14/23	09/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338006
Chloride	443	200	10	09/18/23	09/19/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/20/2023 10:02:44AM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337067-BLK1)

Prepared: 09/13/23 Analyzed: 09/15/23

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	7.66		8.00		95.7	70-130			

LCS (2337067-BS1)

Prepared: 09/13/23 Analyzed: 09/15/23

Benzene	4.59	0.0250	5.00		91.9	70-130			
Ethylbenzene	4.55	0.0250	5.00		91.1	70-130			
Toluene	4.61	0.0250	5.00		92.2	70-130			
o-Xylene	4.59	0.0250	5.00		91.8	70-130			
p,m-Xylene	9.29	0.0500	10.0		92.9	70-130			
Total Xylenes	13.9	0.0250	15.0		92.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.5	70-130			

Matrix Spike (2337067-MS1)

Source: E309102-03

Prepared: 09/13/23 Analyzed: 09/15/23

Benzene	4.82	0.0250	5.00	ND	96.5	54-133			
Ethylbenzene	4.79	0.0250	5.00	ND	95.8	61-133			
Toluene	4.83	0.0250	5.00	ND	96.7	61-130			
o-Xylene	4.78	0.0250	5.00	ND	95.7	63-131			
p,m-Xylene	9.73	0.0500	10.0	ND	97.3	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.7	70-130			

Matrix Spike Dup (2337067-MSD1)

Source: E309102-03

Prepared: 09/13/23 Analyzed: 09/15/23

Benzene	4.57	0.0250	5.00	ND	91.4	54-133	5.41	20	
Ethylbenzene	4.52	0.0250	5.00	ND	90.5	61-133	5.69	20	
Toluene	4.58	0.0250	5.00	ND	91.6	61-130	5.40	20	
o-Xylene	4.57	0.0250	5.00	ND	91.4	63-131	4.58	20	
p,m-Xylene	9.21	0.0500	10.0	ND	92.1	63-131	5.40	20	
Total Xylenes	13.8	0.0250	15.0	ND	91.9	63-131	5.13	20	
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/20/2023 10:02:44AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337067-BLK1)

Prepared: 09/13/23 Analyzed: 09/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			

LCS (2337067-BS2)

Prepared: 09/13/23 Analyzed: 09/15/23

Gasoline Range Organics (C6-C10)	44.4	20.0	50.0		88.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.8	70-130			

Matrix Spike (2337067-MS2)

Source: E309102-03

Prepared: 09/13/23 Analyzed: 09/15/23

Gasoline Range Organics (C6-C10)	43.9	20.0	50.0	ND	87.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130			

Matrix Spike Dup (2337067-MSD2)

Source: E309102-03

Prepared: 09/13/23 Analyzed: 09/15/23

Gasoline Range Organics (C6-C10)	43.5	20.0	50.0	ND	87.0	70-130	0.903	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/20/2023 10:02:44AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337077-BLK1)					Prepared: 09/14/23 Analyzed: 09/14/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.1		50.0		98.1	50-200			

LCS (2337077-BS1)					Prepared: 09/14/23 Analyzed: 09/14/23				
Diesel Range Organics (C10-C28)	247	25.0	250		98.7	38-132			
Surrogate: n-Nonane	48.7		50.0		97.3	50-200			

Matrix Spike (2337077-MS1)					Source: E309102-01		Prepared: 09/14/23 Analyzed: 09/14/23		
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	43.3		50.0		86.5	50-200			

Matrix Spike Dup (2337077-MSD1)					Source: E309102-01		Prepared: 09/14/23 Analyzed: 09/14/23		
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.1	38-132	3.52	20	
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 15 - 8	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/20/2023 10:02:44AM

Anions by EPA 300.0/9056A

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 (2338006-BLK1)					Prepared: 09/18/23 Analyzed: 09/19/23				
Chloride	ND	20.0							
LCS (2338006-BS1)					Prepared: 09/18/23 Analyzed: 09/19/23				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2338006-MS1)					Source: E309102-01		Prepared: 09/18/23 Analyzed: 09/19/23		
Chloride	641	400	250	ND	257	80-120			M5
Matrix Spike Dup (2338006-MSD1)					Source: E309102-01		Prepared: 09/18/23 Analyzed: 09/19/23		
Chloride	601	400	250	ND	241	80-120	6.43	20	M5

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:	RDX 15 - 8	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/20/23 10:02

- 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.



Released to Imaging: 10/17/2023 11:47:15 AM

Received by OCD: 9/29/2023 1:08:59 PM

Project Information

Chain of Custody

Client: WPX Energy Permian LLC.		Bill To		Lab Use Only		TAT		EPA Program			
Project: RDX 15-8		Attention: Jim Raley		Lab WO#		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno		Address: 5315 Buena Vista Dr.		E309102		Job Number		01658-0007		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@dv.com									
Email: Devon-team@etechnv.com		WO: 21204777									
Collected by: Edyte Konan		Incident ID: nAB1512455138									

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
7:00	9/11/2023	S	1	SW01	1	0-4'						X		
7:10	9/11/2023	S	1	SW02	2	0-4'						X		
7:20	9/11/2023	S	1	SW03	3	0-4'						X		
7:30	9/11/2024	S	1	SW04	4	0-4'						X		
7:40	9/11/2023	S	1	SW05	5	0-4'						X		
7:50	9/11/2025	S	1	SW06	6	0-4'						X		
8:00	9/11/2023	S	1	SW07	7	0-4'						X		
8:10	9/11/2026	S	1	SW08	8	0-4'						X		
8:20	9/11/2023	S	1	SW09	9	0-4'						X		
8:30	9/11/2027	S	1	SW10	10	0-4'						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.

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 Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>[Signature]</i>	09/12/2023	08:00	<i>Michelle Gough</i>	9-12-23	0800	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Michelle Gough</i>	9-12-23	1600	<i>Andrea Messa</i>	9-12-23	1900	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Andrea Messa</i>	9-13-23	0130	<i>Caitlin Mann</i>	9-13-23	8:15	

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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[illegible]

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) <i>[Signature]</i>	Date 9/12/2023	Time 08:00	Received by: (Signature) <i>[Signature]</i>	Date 9-12-23	Time 0800	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>[Signature]</i>	Date 9-12-23	Time 1600	Received by: (Signature) <i>[Signature]</i>	Date 9-12-23	Time 1900	
Relinquished by: (Signature) <i>[Signature]</i>	Date 9.13.23	Time 0130	Received by: (Signature) <i>[Signature]</i>	Date 9.13.23	Time 8:15	
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

Printed: 9/13/2023 10:34:16AM

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:	09/13/23 08:15	Work Order ID:	E309102
Phone:	(539) 573-4018	Date Logged In:	09/12/23 14:45	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	09/19/23 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 filtration 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

Client: WPX Energy Permian LLC.				Bill To		Lab Use Only				TAT				EPA Program				
Project: RDX 15-8				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E309102		01058-0007					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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: (832)541-7719				Email: jim.raley@dvn.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechenv.com				WO: 21204777										Remarks				
Collected by: Edyte Konan				Incident ID: nAB1512455138														
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					
7:00	9/11/2023	S	1	SW01	1	0-4'						X		Corrected				
7:10	9/11/2023	S	1	SW02	2	0-4'						X		Sample dates				
7:20	9/11/2023	S	1	SW03	3	0-4'						X		per Gilbert				
7:30	9/11/2023	S	1	SW04	4	0-4'						X		9/18/23 CM				
7:40	9/11/2023	S	1	SW05	5	0-4'						X						
7:50	9/11/2023	S	1	SW06	6	0-4'						X						
8:00	9/11/2023	S	1	SW07	7	0-4'						X						
8:10	9/11/2023	S	1	SW08	8	0-4'						X						
8:20	9/11/2023	S	1	SW09	9	0-4'						X						
8:30	9/11/2023	S	1	SW10	10	0-4'						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) <i>[Signature]</i>	Date 09/12/2023	Time 0800	Received by: (Signature) <i>Michelle Gungl</i>	Date 9-12-23	Time 0800	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Gungl</i>	Date 9-12-23	Time 1600	Received by: (Signature) <i>Andrea Messo</i>	Date 9-12-23	Time 1900	
Relinquished by: (Signature) <i>Andrea Messo</i>	Date 9-13-23	Time 0130	Received by: (Signature) <i>Caitlin Mann</i>	Date 9-13-23	Time 8:15	

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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APPENDIX G

NMOCD Notifications

Erick Herrera

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Monday, July 10, 2023 10:19 AM
To: Erick Herrera
Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (7/12-7/14)

Erick,

Notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion 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](http://www.emnrd.nm.gov)



From: Erick Herrera <erick@etechenv.com>
Sent: Friday, July 7, 2023 2:01 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 (7/12-7/14)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities next week at the following site between July 12 through 14, 2023. This email serves as a 48-hr notice.

Proposed Date: July 12, 2023
Proposed Timeframe: 0800 – 1700 hrs.
Site Name: RDX 15-8
Incident Number: nAB1512455138
API: 30-015-36758

Thank you,

Erick Herrera

Staff Geologist



Work: (432) 305-6416

Cell: (281) 777-4152

Erick Herrera

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, July 13, 2023 9:07 AM
To: Erick Herrera
Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject: RE: [EXTERNAL] WPX Site Sampling Activity Updates (7/17-7/21)

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.

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](http://www.emnrd.nm.gov)



From: Erick Herrera <erick@etechenv.com>
Sent: Wednesday, July 12, 2023 3:33 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov
Cc: Raley, Jim <jim.raley@dmv.com>; Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] WPX Site Sampling Activity Updates (7/17-7/21)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between July 17 through July 21, 2023:

Proposed Date: July 17, 2023, July 18, 2023, July 19, 2023, July 20, 2023, July 21, 2023,
Proposed Timeframe: 0800 – 1700 hrs.
Site Name: RDX 15-8
Incident Number: nAB1512455138
API: 30-015-36758

Proposed Dates: July 17, 2023, July 18, 2023, July 19, 2023, July 20, 2023, July 21, 2023,
Proposed Timeframe: 0800 – 1700 hrs.
Site Name: North Brushy PW Line

Staff Geologist



Work: (432) 305-6416

Cell: (281) 777-4152

Erick Herrera

From: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Sent: Wednesday, September 6, 2023 3:47 PM
To: Erick Herrera; Enviro, OCD, EMNRD; blm_nm_cfo_spill@blm.gov; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Cc: Raley, Jim; Devon-Team
Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (9/11 -9/15)

You don't often get email from michael.buchanan@emnrd.nm.gov. [Learn why this is important](#)

Hello, 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,

Mike Buchanan • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.490.0798 | michael.buchanan@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Erick Herrera <erick@etechenv.com>
Sent: Wednesday, September 6, 2023 11:03 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 (9/11 -9/15)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

WPX anticipates conducting confirmation soil sampling activities at the following sites between September 11th through September 15th, 2023:

Proposed Date: September 11, 2023, September 12, 2023, September 13, 2023, September 14, 2023, September 15, 2023.

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: Brushy Gathering Facility

Incident Numbers: nAB1501655607, nAB1504054780, nAB1522341642, nAB1621453181, nAB1633639499, and nAPP2230032326

API: 30-015-24451

Proposed Date: September 11, 2023, September 12, 2023, September 13, 2023, September 14, 2023, September 15, 2023.

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDX 15-8

Incident Number: nAB1512455138

API: 30-015-36758

Thank you,

Erick Herrera

Staff Geologist



Work: (432) 305-6416

Cell: (281) 777-4152

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 270763

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 270763
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	10/17/2023