



DEFERRAL REQUEST REPORT

RDX 16 #008

Eddy County, New Mexico

Incident Number

nAPP2307930900

Prepared for:

WPX Energy Permian, LLC.

Carlsbad • Midland • Houston • San Antonio • Lubbock • Hobbs • Lafayette



SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Deferral Request Report (DRR) detailing corrective actions and subsequent soil sampling events conducted in accordance with an approved Remediation Work Plan (RWP), for an inadvertent release of crude oil and produced water at the RDX 16 #008 (Site). Based on completed remedial actions and laboratory analytical results from recent soil sampling events, WPX is requesting to defer residual impacted soil within an earthen bermed tank battery containment (TB containment) and No Further Action (NFA) until the Site undergoes major deconstruction or plugging and abandonment (P&A), whichever comes first.

SITE LOCATION AND BACKGROUND

The storage tanks for the well (API 30-015-39751), where the release occurred, are located in Unit H, Section 16, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.04507°, -103.88068°) and is associated with oil and gas exploration and production operations on State Land (**Figure 1 in Appendix A**).

As documented in the RWP, a storage tank overflow resulted in approximately 4 barrels (bbls) of crude oil and 30 bbls of produced water to be released within the TB containment. Vacuum trucks were immediately dispatched and recovered approximately 2 bbls of crude oil and 25 bbls of produced water. 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), which was received by the NMOCD on March 20, 2023, and was subsequently assigned Incident Number nAPP2307930900. **Figure 2 in Appendix A** depicts the observed release, hereafter referred to as the Area of Concern (AOC).

A RWP was prepared by Etech, to attempt vertical delineation within the TB containment and continue lateral delineation around the AOC. hereafter referred to as the Area of Concern (AOC). The RWP was approved on November 14, 2023, by the NMOCD with the following condition:

- *The Remediation Plan is Conditionally Approved. Due to the sensitive nature of the release location and the site being located within a 100-year floodplain, the site will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Sidewall/edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. Please collect confirmation samples, representing no more than 200 ft². The work will need to occur in 90 days after the report has been reviewed.*

Upon completion of the work proposed in the RWP, WPX requested a 30-day extension to provide sufficient time to review and compile data, field summaries and to submit a formal report. A 90-day extension was granted by the NMOCD for May 13, 2024.

Upon further review of the compiled data and field summaries from above, WPX deemed the continuation of remediation activities to the AOC necessary. To provide sufficient time for these remediation activities and preparation of a formal report, WPX requested a final 90-day extension, granted by the NMOCD for August 6, 2024.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As previously described in the approved RWP, the Site was characterized 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.

Based on the results from the desktop review detailed in the approved RWP, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria*
Chloride	Environmental Protection Agency (EPA) 300.0	600 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	100 mg/kg
Benzene	EPA 8021B/ 8260B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B/ 8260B	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.

Receptor details and sources used to determine the Site characterization are included in **Figure 1A**, **Figure 1B**, and **Figure 1C** in **Appendix A**. Referenced well records are provided as **Appendix B**.

DELINEATION SOIL SAMPLING ACTIVITIES

On January 18, 2024, Etech conducted continued delineation activities to further assess the AOC as per the approved RWP. Five delineation locations (BH01 through BH05) were further advanced via hand auger and/or mechanical equipment within and around the AOC until the terminus soil sample was compliant with Site Closure Criteria as determined by field screening soil samples for volatile organic hydrocarbons (VOCs) using a photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips and/or until equipment limitations restricted further advancement. Sampling locations BH01 through BH03, and BH05 were advanced to a total depth of 20 feet below ground surface (bgs) via mechanical equipment. Due to limitation of access associated with above ground equipment, surface, subsurface lines and utilities, and to prevent unnecessary disturbance of native vegetation, BH04 was not advanced further via mechanical equipment. A minimum of two soil samples were collected per sampling location, representing the highest observed field screening concentrations and the greatest depth. Field screening results and soil descriptions were denoted on soil sampling logs, which are included as **Attachment C**. The locations of the delineation soil samples are shown in **Figure 2** in **Appendix A**. Photographic documentation during delineation activities is included in **Attachment 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 Laboratories (Envirotech) in Farmington, New Mexico, for analysis of COCs.



DELINATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated that concentrations of COCs for all delineation soil samples collected surrounding the AOC were below the applicable Site Closure Criteria and/or reclamation standard.

Laboratory analytical results for delineation soil samples indicated elevated chloride concentrations existed within the AOC up to 18 feet bgs within the vicinity of BH01 (characterized by concentrations ranging from 666 mg/kg to 5,290 mg/kg) and represent residual impacts left in place existing from ground surface up to 18 feet bgs. TPH and BTEX concentrations were below Site Closure Criteria for all soil samples collected from within the AOC, except BH06 at 0.5-foot bgs for TPH.

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

On March 22, 2024, Etech collected 5-point composite confirmation soil samples within the AOC representing no greater than 200 square feet from the floors (FS01 through FS14) and sidewalls (SW01 and SW02) as required by the NMOCD. The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. Confirmation soils samples were handled and analyzed as previously described. The locations of the confirmation soil samples are shown in **Figure 3** in **Appendix A**.

Laboratory analytical results for confirmation soil samples floors collected from within the TB containment indicated unexpected, elevated concentrations of TPH. Due to the presence of TPH concentrations ranging from 1,568 mg/kg to 17,240 mg/kg, additional remediation efforts were warranted outside the original scope of work outlined in the approved RWP.

From May 20, 2024, through May 24, 2024, Etech oversaw excavation activities to remove the highest concentrations of residual impacts based on confirmation soil samples FS01 through FS14 via hand digging. The excavation was cautiously advanced to approximately 0.5 feet bgs to reduce the potential risk of structural destabilization of aboveground equipment, surface and subsurface lines or utilities, and protection of on-site personnel. The excavation was driven by field screening soil for VOCs and chloride as previously described.

Following the removal of impacted soil, Etech collected 5-point composite confirmation soil samples from the floors of the excavation (FS01 through FS14) at a sampling frequency of 200 square feet. The composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The samples were collected, handled and analyzed as previously described.

EXCAVATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated a significant trend of decreasing TPH concentrations with depth throughout the TB containment, however, laboratory analytical results indicated a general increase in chloride concentrations with the increase of soil sample depth. As such, WPX warranted additional efforts to conduct additional delineation to characterize residual impacts within the TB containment and advance the excavation to the Maximum Extent Practical (MEP). It should be noted, that due to high sample volumes, Envirotech contracted Alamo Analytical Laboratories (Alamo) in San Antonio, Texas, to assist with the analyses of multiple soil samples. All samples were analyzed within prescribed holding times and/or in accordance with the Sample Acceptance Policy for the lab .



CONTINUED DELINEATION SOIL SAMPLING ACTIVITIES

On June 21, 2024, Etech continued delineation soil sampling to further characterize residual impacts within the TB containment. Delineation was driven by field screening soil samples for VOCs and chloride, as described above. Three additional delineation borings (BH07 through BH09) were advanced to 8 feet bgs via hand auger, where hand auger limitations restricted further advancement and above ground equipment restricted further advancement with heavy equipment. However, the presence of surface and subsurface utilities prevented the further advancement by means of mechanical equipment. A minimum of two soil samples per sampling location were collected, handled, and analyzed by an accredited laboratory, adhering to the same procedure described above. Field screening results and soil descriptions were denoted on soil sampling logs, which are included as **Attachment C**. The locations of the delineation soil samples are shown in **Figure 2** in **Appendix A**. Photographic documentation during delineation activities is included in **Attachment D**.

CONTINUED DELINEATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples (BH07 through BH09) indicated TPH and BTEX were below Site Closure Criteria for all soil samples; laboratory analytical results for delineation soil samples (BH07 through BH09) indicated elevated chloride concentrations steadily decreased from ground surface to 8 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**.

CONTINUED EXCAVATION SOIL SAMPLING ACTIVITIES

From June 28, 2024, through July 1, 2024, Etech resumed oversight of excavation activities to remove accessible residual impacts within the TB containment to the MEP. As such, the excavation within the TB containment was advanced to approximately 2-feet bgs to 4-feet bgs to reduce the potential risk of structural destabilization of aboveground equipment, surface and subsurface lines or utilities, and protect on-site personnel. Following additional soil removal, composite confirmation excavation soil samples were collected from the new excavation floors and sidewalls, handled, and analyzed as previously described. The locations of the final confirmation excavation soil samples are shown in **Figure 3** in **Appendix A**.

Approximately 130 cubic yards (CY) of residual impacted soil was removed from the Site and transported to R360 Red Bluff in Orla, Texas under WPX approved manifests. Upon receipt of the final confirmation excavation soil samples results, the excavation was backfilled with clean, locally sourced soil and the Site was restored to "as close to its original state" as possible. Photographic documentation of all Site activities is included in **Appendix D**.

FINAL EXCAVATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for soil samples collected from within the TB containment indicated TPH-GRO + TPH-DRO/TPH concentrations were compliant with applicable Site Closure Criteria; laboratory analytical results indicated a general decreasing trend of chloride concentrations in comparison to the shallower excavation soil samples at 0.5-foot bgs. Residual impacts left in place within the containment are characterized chloride concentrations ranging from 695 mg/kg to 19,100 mg/kg.

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**.



DEFERRAL REQUEST

Based on laboratory analytical results from confirmation excavation and delineation soil sampling events, residual impacts associated with the AOC have been delineated, excavated to the MEP, and removed from the Site. The MEP was excavated surrounding all surface and/or subsurface pipelines and production equipment adhering to WPX's safety precautions and encroachment regulations to ensure the health and safety of on-site personnel and for structural integrity of utilities. As such, residual impacts appear to solely reside below the TB containment up to 18 feet bgs based on delineation laboratory analytical results for BH01, and the laboratory analytical results for horizontal delineation soil samples BH02 through BH05 (**Figure 4** in **Appendix A**). WPX requests to defer FS01 through FS14, ranging from 2 feet to 4 feet bgs, and the remainder of residual impacted soil within the TB containment unable to be excavated at this time.

WPX believes the initial response efforts and other completed remedial actions have mitigated impacts at the Site and meet the Deferral requirements set forth in NMAC regulations to be protective of human health, the environment, and groundwater. Impacted soil is shallow within the TB containment, relative to the depth to groundwater, which was determined to be greater than 100 feet bgs, based off a nearby, dry soil boring (MW-1), advanced on December 16, 2020, via truck mounted drill rig equipped with hollow stem auger to a total depth of 110 feet bgs. . As such, WPX respectfully requests deferral of up to 1,866 CY of residual impacted soil lying beneath the TB containment until the Site undergoes major facility deconstruction or P&A, whichever comes first.

NFA appears warranted at this time and Incident Number nAPP2307930900 should be respectfully considered for Deferral by the NMOCD. If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (432) 305-6413 or joseph@etechenv.com or Erick Herrera at (432) 305-6416 or erick@etechenv.com. Documentation of correspondence and notifications regarding Incident Number nAPP2307930900 is presented as **Appendix G**. The approved RWP may be referenced in **Appendix H**.

Sincerely,

Etech Environmental and Safety Solutions, Inc.

A handwritten signature in black ink, appearing to read 'Erick H'.

Erick Herrera
Project Geologist

A handwritten signature in black ink, appearing to read 'Joseph S. Hernandez'.

Joseph S. Hernandez
Senior Managing Geologist

cc: Jim Raley, WPX
New Mexico Oil Conservation Division
State Land Office



Appendices:

Appendix A: Figure 1: Site Map

Figure 1A: Site Characterization Map - Groundwater

Figure 1B: Site Characterization Map - Surficial Receptors

Figure 1C: Site Characterization Map – Subsurface Receptors

Figure 2: Delineation Soil Sample Locations

Figure 3: Excavation Soil Sample Locations

Figure 4: Deferral Area

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: Correspondence & Notifications

Appendix H: Archived Reports

APPENDIX A

Figures

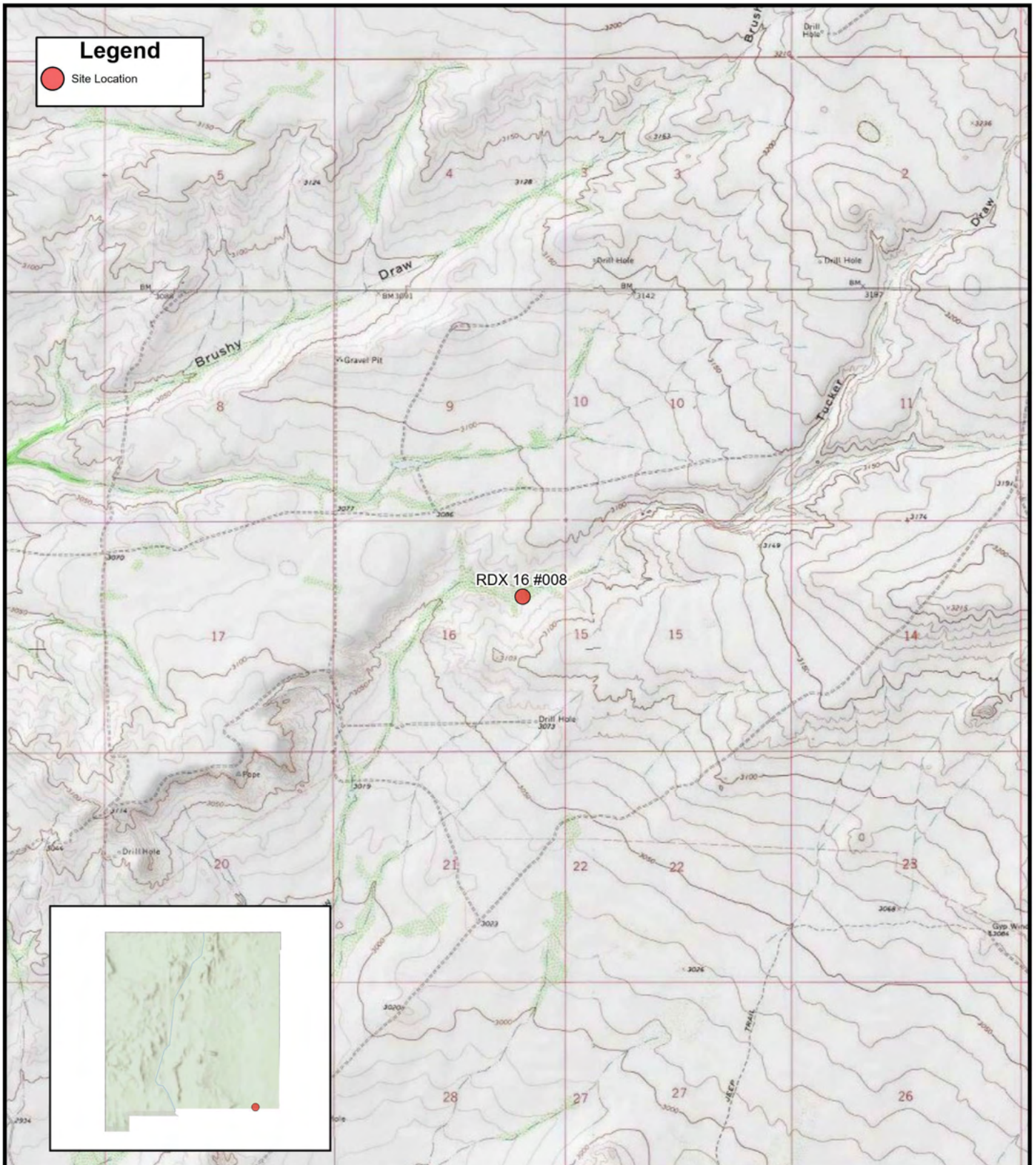


FIGURE 1

Site Location Map

WPX ENERGY PERMIAN, LLC
RDX 16 #008
Unit H Sec 16 T26S R30E
Eddy County, New Mexico



0 2,000 4,000 Feet

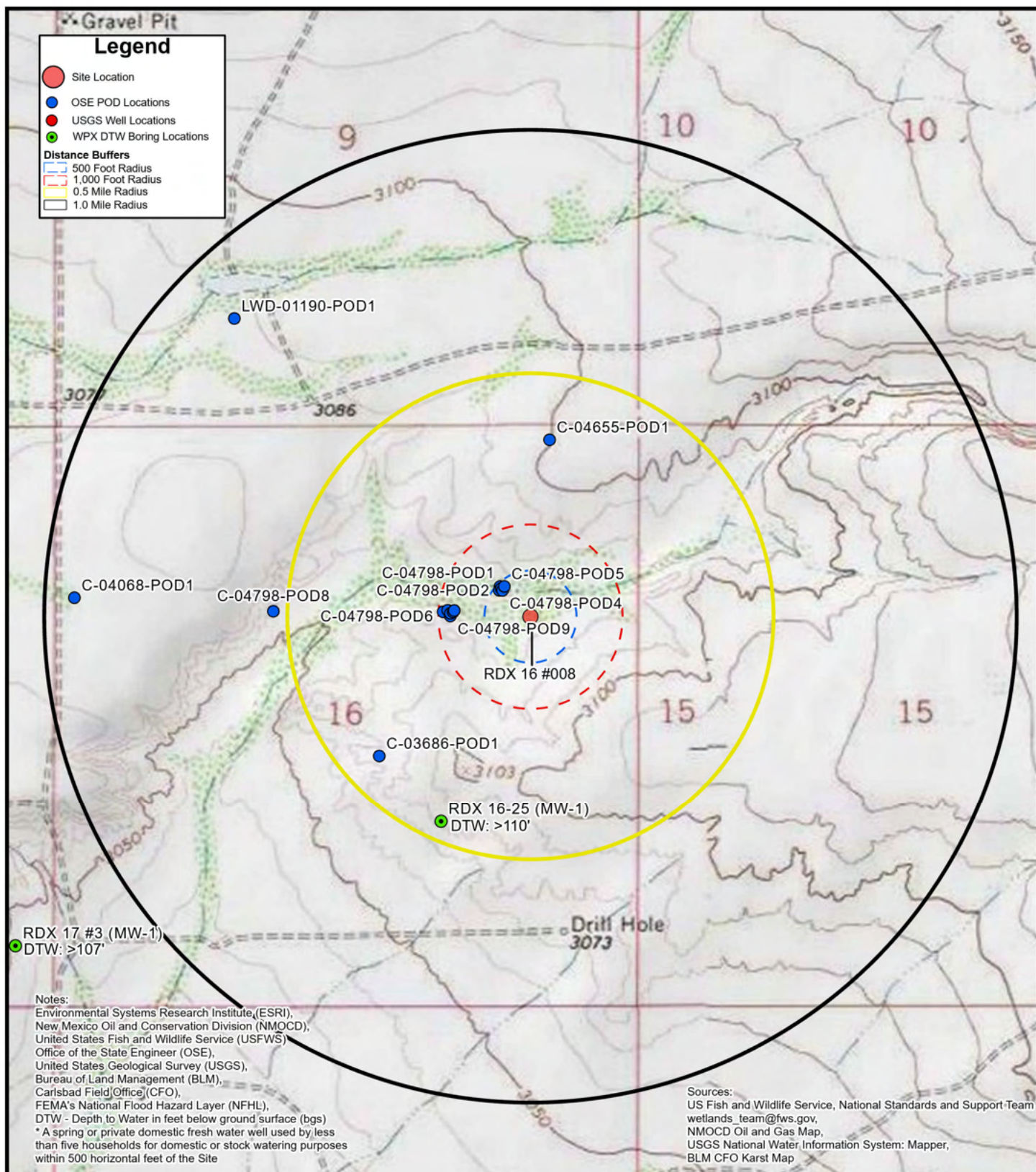


FIGURE 1A
**Site Characterization Map
 Ground Water**

WPX ENERGY PERMIAN, LLC
 RDX 16 #008
 Unit H Sec 16 T26S R30E
 Eddy County, New Mexico



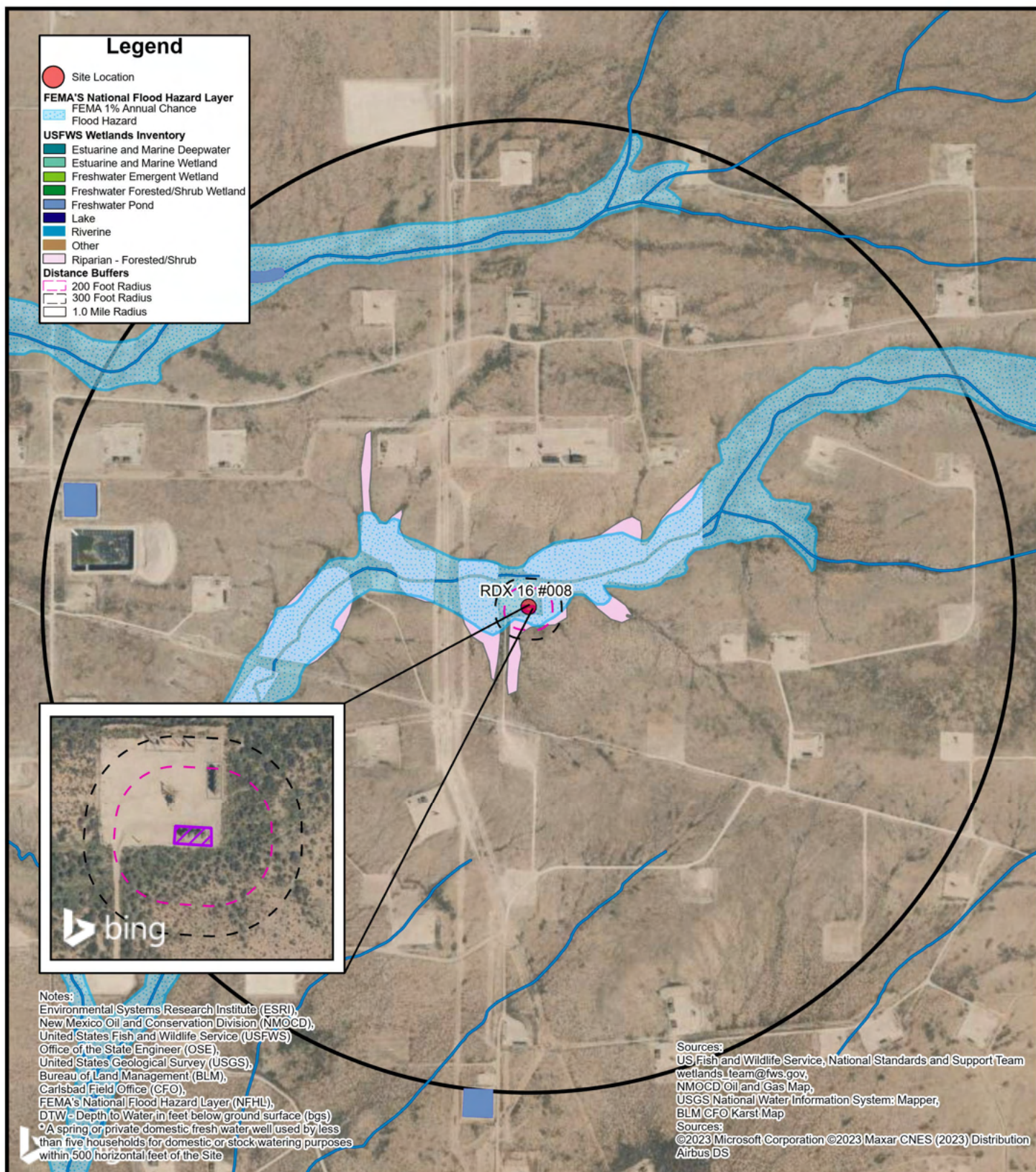
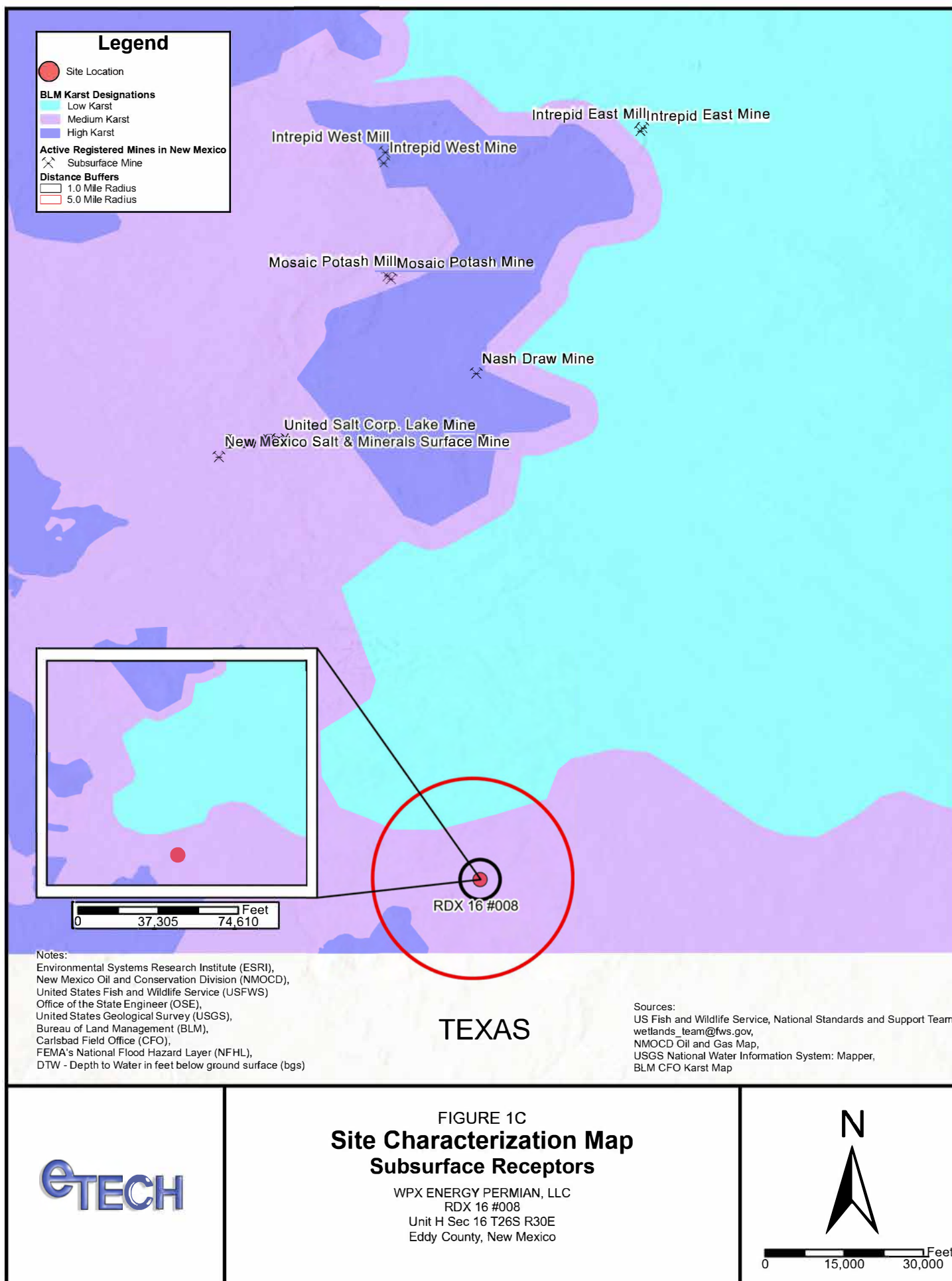


FIGURE 1B
**Site Characterization Map
 Surficial Receptors**

WPX ENERGY PERMIAN, LLC
 RDX 16 #008
 Unit H Sec 16 T26S R30E
 Eddy County, New Mexico





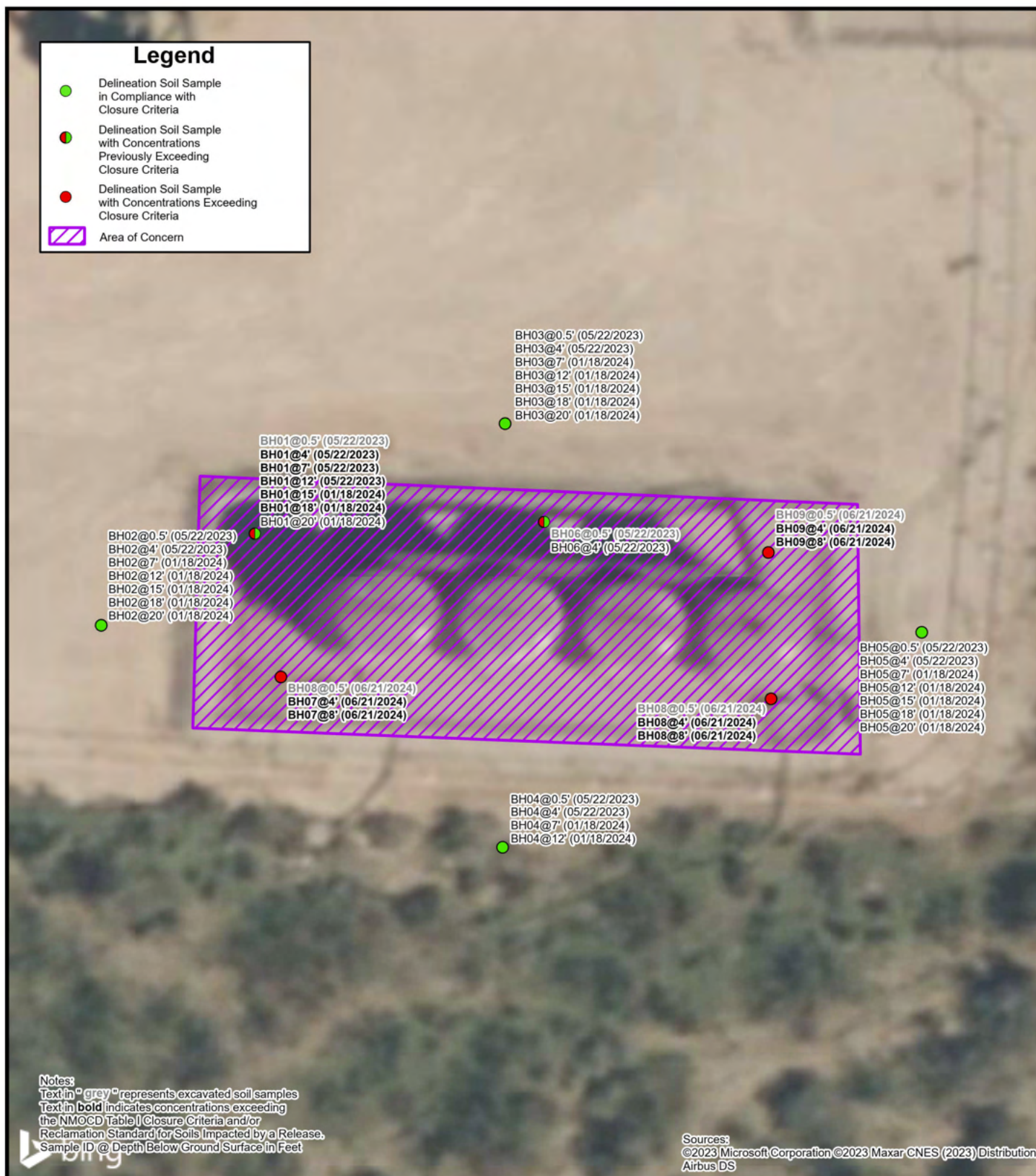


FIGURE 2

Delineation Soil Sample Locations

WPX ENERGY PERMIAN, LLC
 RDX 16 #008
 Unit H Sec 16 T26S R30E
 Eddy County, New Mexico



0 13.75 27.5 Feet

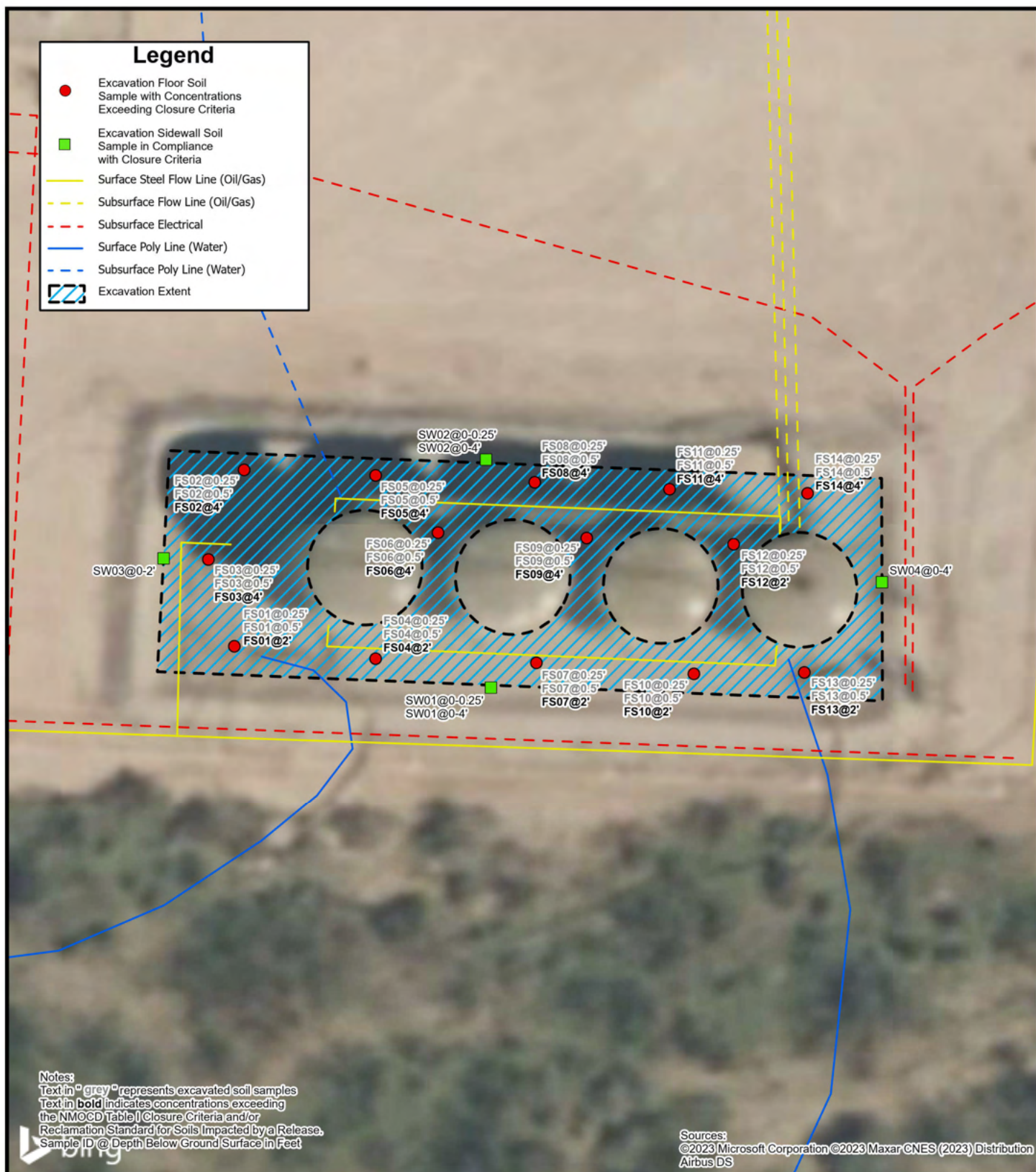


FIGURE 3

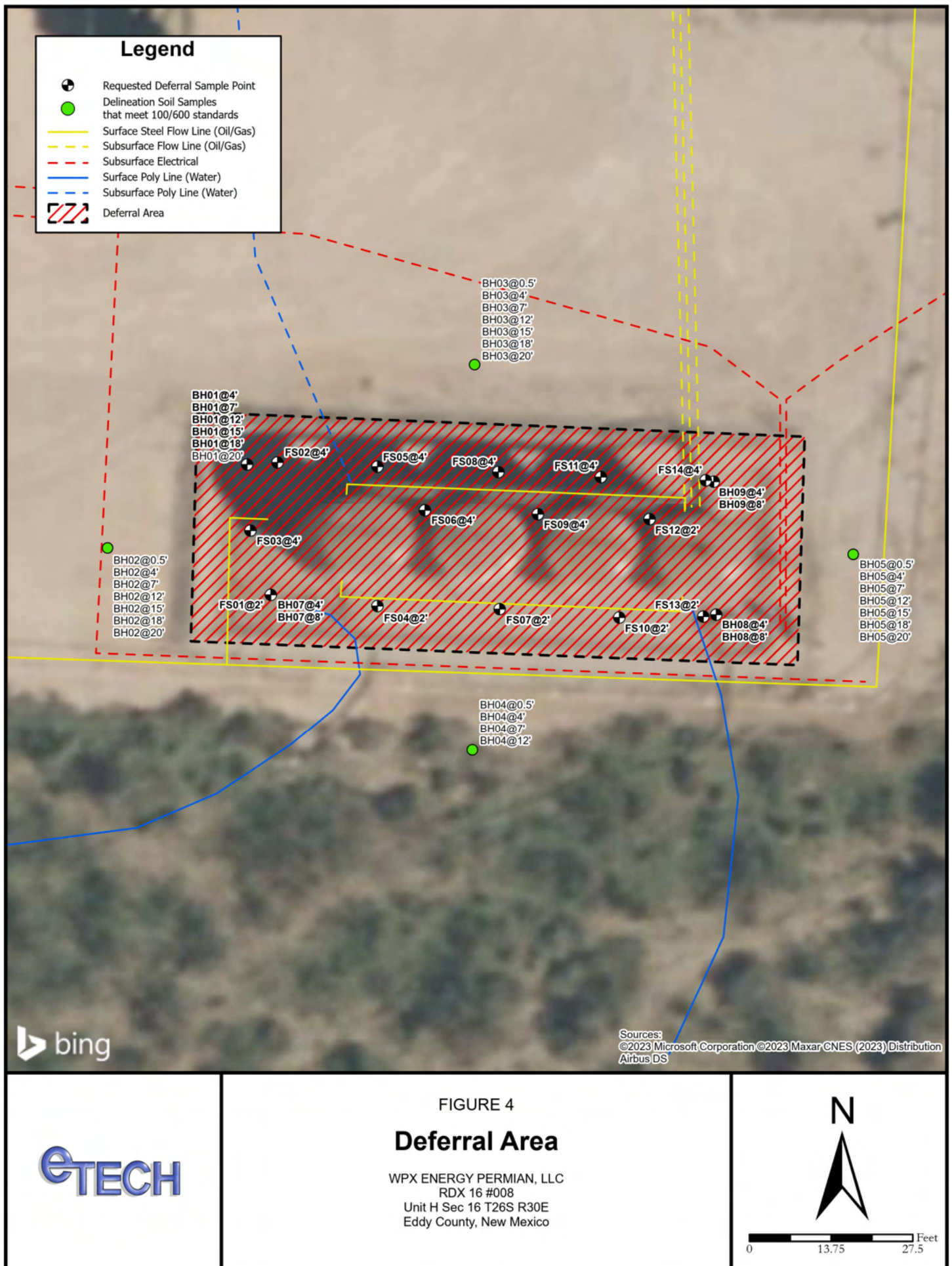
Excavation Soil Sample Locations

WPX ENERGY PERMIAN, LLC
 RDX 16 #008
 Unit H Sec 16 T26S R30E
 Eddy County, New Mexico

ETECH




0 11.5 23 Feet



APPENDIX B

Referenced Well Records

							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

Lithologic Sampling Logs



Sample Name: BH01 Date: 05/22/2023 and 01/18/2024
 Site Name: RDX 16 #008
 Incident Number: nAPP2307930900
 Job Number: 18138

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Track Hoe

Site Coordinates: 32.0450631, -103.8808234

Hole Diameter: N/A

Total Depth: 20 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	CCHE	(0-1') Pad surface CALICHE, dry, no staining, no odor.
Dry	4,060	0.0	No	BH01	0.5			
Dry	656	0.0	No		1		SW-SM	(1-2') SAND, dry, brown, well graded with silt and some small gravel, very fine to coarse grain, no staining, no odor.
Dry	356	0.0	No		2		SP-SM	
Dry	656	0.0	No		3			
Dry	1,046	0.0	No	BH01	4			(2-20') SAND, dry, light brown, poorly graded with trace small gravel, very fine to fine grain, no stain, no odor.
Dry	1,696	0.0	No		5	5		
Dry	1,208	0.0	No		6			
Dry	656	0.0	No	BH01	7			
Dry	904	0.0	No		8			
Dry	972	0.0	No		9			
Dry	972	0.0	No		10	10		
Dry	904	0.0	No		11			
Dry	972	0.0	No	BH01	12			
Dry	1,944	0.0	No		14			
Dry	4,764	0.5	No	BH01	15	15		
Dry	4,400	0.5	No		16			
Dry	4,400	0.5	No		16			
Dry	792	0.0	No	BH01	18			
Dry	300	0.0	No	BH01	20	20		
Total Depth								



Sample Name: BH02 Date: 05/22/2023 and 01/18/2024
 Site Name: RDX 16 #008
 Incident Number: nAPP2307930900
 Job Number: 18138

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Track Hoe

Site Coordinates: 32.0450180, -103.8808987

Hole Diameter: N/A Total Depth: 20 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	372	0.0	No	BH02	0.5	0	CCHE	(0-1') Pad surface CALICHE, dry, no staining, no odor.
Dry	300	0.0	No		1		SP-SM	(1-20') SAND, dry, light brown, poorly graded with some silt very fine to fine grain, trace small gravel, no stain, no odor.
Dry	356	0.0	No		2			
Dry	268	0.0	No		3			
Dry	<120	0.0	No	BH02	4	5		
Dry	<120	0.0	No	BH02	7			
						10		
Dry	<128	0.0	No	BH02	12			
Dry	<128	0.0	No	BH02	15	15		
Dry	<128	0.0	No	BH02	18			
Dry	300	0.0	No	BH02	20	20		
Total Depth								



Sample Name: BH03 Date: 05/22/2023 and 01/18/2024
 Site Name: RDX 16 #008
 Incident Number: nAPP2307930900
 Job Number: 18138

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Track Hoe

Site Coordinates: 32.0451178, -103.8806999

Hole Diameter: N/A Total Depth: 20 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	236	0.0	No	BH03	0.5	0	CCHE	(0-1') Pad surface CALICHE, dry, no staining, no odor.
Dry	300	0.0	No		1		SP-SM	(1-20') SAND, dry, light brown, poorly graded with some silt, very fine to fine grain, trace small gravel, no stain, no odor.
Dry	356	0.0	No		2			
Dry	<120	0.0	No		3			
Dry	<120	0.0	No	BH03	4			
						5		
Dry	<128	0.0		BH03	7			
						10		
Dry	<128	0.0	No	BH03	12			
						15		
Dry	<128	0.0	No	BH03	15			
Dry	<128	0.0	No	BH03	18			
Dry	300	0.0	No	BH03	20	20		
Total Depth								



Sample Name: BH04

Date: 05/22/2023 and 01/18/2024

Site Name: RDX 16 #008

Incident Number: nAPP2307930900

Job Number: 18138

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Hand Auger

Site Coordinates: 32.0449074, -103.8807014

Hole Diameter: 3.5 inches

Total Depth: 12 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<120	0.0	No	BH04	0.5	0	SP-SM	(0-11') SAND, dry, light brown, poorly graded with some silt very fine to fine grain, trace small gravel, no stain, no odor.
Dry	300	0.0	No		1			
Dry	356	0.0	No		2			(11-12') SAND, dry, light brown, well graded with some silt, very fine to fine, some well rounded pebble, no stain, no odor.
Dry	<120	0.0	No		3			
Dry	<120	0.0	No	BH04	4			Note: Hand Auger refusal @ 12 feet bgs
						5		
Dry	<128	0.0	No	BH04	7			
						10		
							SW-SM	
Dry	<128	0.0	No	BH04	12			

Total Depth



Sample Name: BH05

Date: 05/22/2023 and 01/18/2024

Site Name: RDX 16 #008

Incident Number: nAPP2307930900

Job Number: 18138

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Track Hoe

Site Coordinates: 32.0450137, -103.8804939

Hole Diameter: N/A

Total Depth: 20 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<120	0.0	No	BH05	0.5	0	CCHE	(0-1') Pad surface CALICHE, dry, no staining, no odor.
Dry	300	0.0	No		1		SP-SM	(1-20') SAND, dry, light brown, poorly graded with some silt very fine to fine grain, trace small gravel, no stain, no odor.
Dry	356	0.0	No		2			
Dry	<120	0.0	No		3			
Dry	<120	0.0	No	BH05	4			
Dry	<120	0.0	No	BH05	7			
						10		
Dry	<128	0.0	No	BH05	12			
Dry	<128	0.0	No	BH05	15	15		
Dry	<128	0.0	No	BH05	18			
Dry	300	0.0	No	BH05	20	20		
Total Depth								



Sample Name: BH06 Date: 05/22/2023 and 01/18/2024
 Site Name: RDX 16 #008
 Incident Number: nAPP2307930900
 Job Number: 18138

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Hand Auger

Site Coordinates: 32.0450737, -103.8806819

Hole Diameter: 3.5 inches Total Depth: 4 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	5,592	170.1	Yes	BH06	0.5	0	CCHE	(0-1') Pad surface CALICHE, dry, no staining, no odor.
Dry	300	0.0	No		1		SW-SM	(1-2') SAND, dry, brown, well graded with silt fine to coarse grain, some small gravel, no stain, no odor.
Dry	356	31.3	No		2		SP-SM	(2-4') SAND, dry, light brown, poorly graded with silt, very fine to fine grain, trace small gravel, no stain, no odor.
Dry	<120	8.4	No		3			
Dry	156	8.0	No	BH06	4			

Total Depth



Sample Name: BH07 Date: 06/21/2024 & 06/28/2024
 Site Name: RDX 16 #008
 Incident Number: nAPP2307930900
 Job Number: 18138

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Hand Auger

Site Coordinates: 32.0449942, -103.8808105

Hole Diameter: 3.5 inches Total Depth: 14 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	16,440	0.0	No	BH07	0.5	0	CCHE	(0-1') Pad surface CALICHE, dry, no staining, no odor.
Dry	11,028	0.0	No		1		SP-SM	(1-8') SAND, dry, light brown, poorly graded with some silt very fine to fine grain, trace small gravel, no stain, no odor.
Dry	16,440	0.0	No		2	2		@8' hit refusal
Dry	16,440	0.0	No	BH07	4	4		
Dry	16,440	0.2	No	BH07	6	6		
Dry	12,116	0.0	No	BH07	8	8		

Total Depth



Sample Name: BH08 Date: 06/21/2024 & 06/28/2024
 Site Name: RDX 16 #008
 Incident Number: nAPP2307930900
 Job Number: 18138

LITHOLOGIC / SOIL SAMPLING LOG

Site Coordinates: 32.0449812, -103.8805691

Logged By: EK Method: Hand Auger

Hole Diameter: 3.5 inches Total Depth: 14 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	16,440	9.4	No	BH08	0.5	0	CCHE	(0-1') Pad surface CALICHE, dry, no staining, no odor.
Dry	16,440	5.1	No		1		SP-SM	(1-8') SAND, dry, light brown, poorly graded with some silt very fine to fine grain, trace small gravel, no stain, no odor.
Dry	7,764	3.3	No		2	2		@8' hit refusal
Dry	14,780	22.7	No	BH08	4	4		
Dry	14,780	1.3	No	BH08	6	6		
Dry	3,744	9.0	No	BH08	8	8		

Total Depth



Sample Name: BH09 Date: 06/21/2024 & 06/28/2024

Site Name: RDX 16 #008

Incident Number: nAPP2307930900

Job Number: 18138

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Hand Auger

Site Coordinates: 32.0450535, -103.8805705

Hole Diameter: 3.5 inches

Total Depth: 14 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	16,440	9.4	No	BH09	0.5	0	CCHE	(0-1') Pad surface CALICHE, dry, no staining, no odor.
Dry	16,440	5.1	No		1		SP-SM	(1-8') SAND, dry, light brown, poorly graded with some silt very fine to fine grain, trace small gravel, no stain, no odor.
Dry	7,764	3.3	No		2	2		@8' hit refusal
Dry	9,212	22.7	No	BH09	4	4		
Dry	5,592	1.3	No	BH09	6	6		
Dry	7,764	9.0	No	BH09	8	8		

Total Depth

APPENDIX D

Photographic Log

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

RDX 16 #008

Incident Number nAPP2307930900

**Photograph 1****Date:** 05/22/2023

Description: Western view during delineation activities of BH01.

**Photograph 2****Date:** 05/22/2023

Description: Western view during delineation activities of BH02.

**Photograph 3****Date:** 01/18/2024

Description: Northeastern view during delineation activities of BH05.

**Photograph 4****Date:** 01/18/2024

Description: Northeastern view during delineation activities of BH04.

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

RDX 16 #008

Incident Number nAPP2307930900

**Photograph 5****Date: 05/24/2024**

Description: Southwestern view of excavation activities down to 0.5'.

**Photograph 6****Date: 06/28/2024**

Description: Northwestern view of final excavation extent.

**Photograph 7****Date: 06/28/2024**

Description: Western view of final excavation extent.

**Photograph 8****Date: 07/18/2024**

Description: Northwestern view of restoration activities.

APPENDIX E

Tables



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
RDX 16 #008
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)	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	100	600
Delineation Soil Samples - Incident Number nAPP2307930900									
BH01	05/22/2023	0.5	<0.0250	<0.0250	<20.0	32.7	<50.0	32.7	5,290
BH01	05/22/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	1,510
BH01	05/22/2023	7	<0.0250	<0.0250	<20.0	<50.0	<50.0	<50.0	666
BH01	05/22/2023	12	<0.0250	<0.0250	<20.0	37.4	<50.0	37.4	861
BH01	01/18/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	4,250
BH01	01/18/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	4,990
BH01	01/18/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	83.7
BH02	05/22/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	278
BH02	05/22/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	34.1
BH02	01/18/2024	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH02	01/18/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH02	01/18/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH02	01/18/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH02	01/18/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH03	05/22/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	161
BH03	05/22/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	21.8
BH03	01/18/2024	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	62.5
BH03	01/18/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	61.5
BH03	01/18/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH03	01/18/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	64.8
BH03	01/18/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	65.3
BH04	05/22/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	48.9
BH04	05/22/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	49.6
BH04	01/18/2024	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	67.0
BH04	01/18/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	69.4



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
RDX 16 #008
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)	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	100	600
BH05	05/22/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH05	05/22/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH05	01/18/2024	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	63.3
BH05	01/18/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	65.2
BH05	01/18/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH05	01/18/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	64.5
BH05	01/18/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	62.5
BH06	05/22/2023	0.5	<0.0250	0.2664	<20.0	611	255	866	2,590
BH06	05/22/2023	4	<0.0250	<0.0250	<20.0	34.4	<50.0	34.4	91.2
BH07	06/21/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	11,300
BH07	06/21/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	14,500
BH07	06/21/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,670
BH08	06/21/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	13,900
BH08	06/21/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,420
BH08	06/21/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,660
BH09	06/21/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	12,300
BH09	06/21/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	6,980
BH09	06/21/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	4,290
Confirmation Soil Samples - Incident Number nAPP2307930900									
FS01	03/22/2024	0.25	<0.0250	<0.0500	<20.0	843	885	1,728	4,470
FS01	05/24/2024	0.5	<0.005	<0.015	<10.0	<25.0	<25.0	<50.0	8,460
FS01	06/28/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,710
FS02	03/22/2024	0.25	<0.0250	<0.0500	<20.0	1,260	1,130	2,390	3,110
FS02	05/24/2024	0.5	<0.005	<0.015	<10.0	<25.0	<25.0	<50.0	7,520
FS02	06/28/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,370



Table 1
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RDX 16 #008
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)	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	100	600
FS03	03/22/2024	0.25	<0.0250	<0.0500	<20.0	849	991	1,840	3,110
FS03	05/24/2024	0.5	<0.005	<0.015	<10.0	<25.0	<25.0	<50.0	13,000
FS03	06/28/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,930
FS04	03/22/2024	0.25	<0.0250	<0.0500	<20.0	1,910	1,890	3,800	6,610
FS04	05/24/2024	0.5	<0.005	<0.015	<10.0	<25.0	<25.0	<50.0	18,000
FS04	06/28/2024	2	<0.0250	<0.0500	<20.0	<25.0	55.3	55.3	19,900
FS05	03/22/2024	0.25	<0.0250	0.387	<20.0	8,800	4,560	13,360	2,330
FS05	05/24/2024	0.5	<0.005	<0.015	<10.0	<25.0	<25.0	<50.0	6,480
FS05	06/28/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	6,600
FS06	03/22/2024	0.25	<0.0250	<0.0500	<20.0	2,190	2,370	4,560	1,690
FS06	05/24/2024	0.5	<0.005	0.0221	<10.0	162	50.0	212	8,460
FS06	06/28/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	9,380
FS07	03/22/2024	0.25	<0.0250	<0.0500	<20.0	2,570	2,480	5,050	5,120
FS07	05/24/2024	0.5	<0.005	<0.0963	<10.0	1,030	220	1,250	15,500
FS07	06/28/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,440
FS08	03/22/2024	0.25	<0.0250	<0.0500	<20.0	11,900	5,340	17,240	1,860
FS08	05/24/2024	0.5	<0.005	0.0414	<10.0	456	93	549	6,040
FS08	06/28/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	6,420
FS09	03/22/2024	0.25	<0.0250	<0.0500	<20.0	1,590	1,400	2,990	3,310
FS09	05/24/2024	0.5	<0.005	0.0205	<10.0	296	75	371	11,500
FS09	06/28/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	5,580
FS10	03/22/2024	0.25	<0.0250	<0.0500	<20.0	5,390	4,520	9,910	2,390
FS10	05/24/2024	0.5	<0.005	0.108	<10.0	1,220	258	1,480	16,500
FS10	06/28/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	17,100
FS11	03/22/2024	0.25	<0.0250	<0.0500	<20.0	742	826	1,568	4,990
FS11	05/24/2024	0.5	<0.005	0.0239	<10.0	180	33	213	5,490
FS11	06/28/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	8,660



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
RDX 16 #008
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)	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	100	600
FS12	03/22/2024	0.25	<0.0250	<0.0500	<20.0	4,610	4,030	8,640	2,550
FS12	05/24/2024	0.5	<0.005	0.142	53	596	338	987	13,500
FS12	06/28/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	6,350
FS13	03/22/2024	0.25	<0.0250	<0.0500	<20.0	3,750	3,250	7,000	1,530
FS13	05/24/2024	0.5	<0.005	0.0283	<10.0	315	79	394	1,300
FS13	06/28/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,880
FS14	03/22/2024	0.25	<0.0250	<0.0500	<20.0	1,470	1,640	3,110	695
FS14	05/24/2024	0.5	<0.005	0.0347	<10.0	286	100	386	1,290
FS14	06/28/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	10,500
SW01	03/22/2024	0-0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	31.0
SW01	07/01/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	349
SW02	03/22/2024	0-0.25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	34.3
SW02	07/01/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	348
SW03	07/01/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	363
SW04	07/01/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	360

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

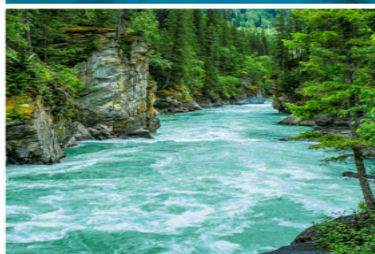
[†] The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

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 16 #008

Work Order: E305157

Job Number: 01058-0007

Received: 5/25/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/31/23

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: 5/31/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E305157
Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/31/23 12:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 0.5'	E305157-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.
BH01 4'	E305157-02A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 5/31/2023 12:56:56PM
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BH01 0.5'

E305157-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2321067
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID	96.0 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2321067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.8 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2321081
Diesel Range Organics (C10-C28)	32.7	25.0	1	05/26/23	05/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/27/23	
Surrogate: n-Nonane	81.2 %	50-200		05/26/23	05/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2321083
Chloride	5290	40.0	2	05/26/23	05/30/23	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 5/31/2023 12:56:56PM
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BH01 4'

E305157-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID	96.0 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.9 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/27/23	
Surrogate: n-Nonane	87.6 %	50-200		05/26/23	05/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2321083	
Chloride	1510	20.0	1	05/26/23	05/26/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/31/2023 12:56:56PM

Volatile Organics by EPA 8021B

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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	7.69		8.00		96.2	70-130			

LCS (2321067-BS1) Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.84	0.0250	5.00		96.7	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

Matrix Spike (2321067-MS1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.52	0.0250	5.00	ND	90.5	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.7	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2321067-MSD1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.10	0.0250	5.00	ND	81.9	54-133	9.94	20	
Ethylbenzene	4.34	0.0250	5.00	ND	86.7	61-133	9.63	20	
Toluene	4.39	0.0250	5.00	ND	87.9	61-130	9.60	20	
o-Xylene	4.43	0.0250	5.00	ND	88.6	63-131	10.1	20	
p,m-Xylene	8.83	0.0500	10.0	ND	88.3	63-131	9.41	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.4	63-131	9.66	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/31/2023 12:56:56PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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

LCS (2321067-BS2) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

Matrix Spike (2321067-MS2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/27/23

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2321067-MSD2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/31/2023 12:56:56PM

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 (2321081-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			

LCS (2321081-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			

Matrix Spike (2321081-MS1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	302	25.0	250	37.4	106	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			

Matrix Spike Dup (2321081-MSD1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	307	25.0	250	37.4	108	38-132	1.63	20	
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/31/2023 12:56:56PM

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 (2321083-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	ND	20.0							
LCS (2321083-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2321083-MS1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	419	40.0	250	161	103	80-120			
Matrix Spike Dup (2321083-MSD1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	424	40.0	250	161	105	80-120	1.25	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/31/23 12:56

- 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.



[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>Edyta Koman</i>	Date 05/24/23	Time 10:30	Received by: (Signature) <i>Michelle Cough</i>	Date 5-24-23	Time 1030	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 Cough</i>	Date 5-24-23	Time 1815	Received by: (Signature) <i>Hebrew Musko</i>	Date 5-24-23	Time 1830	
Relinquished by: (Signature) <i>Hebrew Musko</i>	Date 5-24-23	Time 2400	Received by: (Signature) <i>Cathy Mann</i>	Date 5/25/23	Time 8:20	
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: 5/26/2023 2:03:56PM

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:	05/25/23 08:20	Work Order ID:	E305157
Phone:	(539) 573-4018	Date Logged In:	05/25/23 08:33	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/01/23 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 16 #008

Work Order: E305156

Job Number: 01058-0007

Received: 5/25/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/2/23

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: 6/2/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E305156
Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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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Office: 505-421-LABS(5227)

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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
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	06/02/23 12:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 7'	E305156-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 6/2/2023 12:28:33PM
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BH01 7'

E305156-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID	95.5 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.1 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
Surrogate: n-Nonane	87.4 %	50-200		05/26/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2321083	
Chloride	666	20.0	1	05/26/23	05/26/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/2/2023 12:28:33PM

Volatile Organics by EPA 8021B

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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	7.69		8.00		96.2	70-130			

LCS (2321067-BS1) Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.84	0.0250	5.00		96.7	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

Matrix Spike (2321067-MS1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.52	0.0250	5.00	ND	90.5	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.7	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2321067-MSD1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.10	0.0250	5.00	ND	81.9	54-133	9.94	20	
Ethylbenzene	4.34	0.0250	5.00	ND	86.7	61-133	9.63	20	
Toluene	4.39	0.0250	5.00	ND	87.9	61-130	9.60	20	
o-Xylene	4.43	0.0250	5.00	ND	88.6	63-131	10.1	20	
p,m-Xylene	8.83	0.0500	10.0	ND	88.3	63-131	9.41	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.4	63-131	9.66	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/2/2023 12:28:33PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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

LCS (2321067-BS2) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

Matrix Spike (2321067-MS2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/27/23

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2321067-MSD2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/2/2023 12:28:33PM

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 (2321081-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			

LCS (2321081-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			

Matrix Spike (2321081-MS1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	302	25.0	250	37.4	106	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			

Matrix Spike Dup (2321081-MSD1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	307	25.0	250	37.4	108	38-132	1.63	20	
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/2/2023 12:28:33PM

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 (2321083-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	ND	20.0							
LCS (2321083-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2321083-MS1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	419	40.0	250	161	103	80-120			
Matrix Spike Dup (2321083-MSD1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	424	40.0	250	161	105	80-120	1.25	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	06/02/23 12:28

- 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 16 #008	Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA											
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.		E305156		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		.) n/DRO/ORO by	8021	23260	010	300.0			NM		TX											
Phone: 432-305-6415	Email: jim.raley@dvn.com													State									
Email: Devon-team@etechnv.com	WO: 21141253													NM	CO	UT	AZ	TX					
Collected by: Edyte Konan	Incident ID: nAPP2307930900																						

[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.

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) Edyta Klonan	Date 05/24/23	Time 10:30	Received by: (Signature) Michelle Canyon	Date 5-24-23	Time 1030	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) Michelle Canyon	Date 5-24-23	Time 1815	Received by: (Signature) Andrew McGo	Date 5-24-23	Time 1830	
Relinquished by: (Signature) Andrew McGo	Date 5-24-23	Time 2400	Received by: (Signature) Cath Mars	Date 5/25/23	Time 8:20	

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: 5/26/2023 2:03:10PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	05/25/23 08:20	Work Order ID:	E305156
Phone:	(539) 573-4018	Date Logged In:	05/25/23 08:32	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/01/23 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.

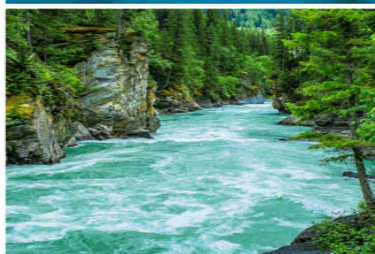
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E305155

Job Number: 01058-0007

Received: 5/25/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/30/23

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: 5/30/23



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16 #008
Workorder: E305155
Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:15

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 12'	E305155-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 5/30/2023 5:15:06PM
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BH01 12'

E305155-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID	94.6 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.2 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321081	
Diesel Range Organics (C10-C28)	37.4	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
Surrogate: n-Nonane	87.8 %	50-200		05/26/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2321083	
Chloride	861	20.0	1	05/26/23	05/26/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:15:06PM

Volatile Organics by EPA 8021B

Analyst: SL

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 (2321067-BLK1)

Prepared: 05/25/23 Analyzed: 05/26/23

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	7.69		8.00		96.2	70-130			

LCS (2321067-BS1)

Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.84	0.0250	5.00		96.7	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

Matrix Spike (2321067-MS1)

Source: E305152-02

Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.52	0.0250	5.00	ND	90.5	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.7	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2321067-MSD1)

Source: E305152-02

Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.10	0.0250	5.00	ND	81.9	54-133	9.94	20	
Ethylbenzene	4.34	0.0250	5.00	ND	86.7	61-133	9.63	20	
Toluene	4.39	0.0250	5.00	ND	87.9	61-130	9.60	20	
o-Xylene	4.43	0.0250	5.00	ND	88.6	63-131	10.1	20	
p,m-Xylene	8.83	0.0500	10.0	ND	88.3	63-131	9.41	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.4	63-131	9.66	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:15:06PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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

LCS (2321067-BS2) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

Matrix Spike (2321067-MS2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/27/23

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2321067-MSD2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:15:06PM

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 (2321081-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			

LCS (2321081-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			

Matrix Spike (2321081-MS1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	302	25.0	250	37.4	106	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			

Matrix Spike Dup (2321081-MSD1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	307	25.0	250	37.4	108	38-132	1.63	20	
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:15:06PM

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 (2321083-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	ND	20.0							
LCS (2321083-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2321083-MS1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	419	40.0	250	161	103	80-120			
Matrix Spike Dup (2321083-MSD1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	424	40.0	250	161	105	80-120	1.25	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:15

- 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.



[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.

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>Egyle Konan</i>	Date 05/24/23	Time 10:30	Received by: (Signature) <i>Michelle Coughlin</i>	Date 5-24-23	Time 1030	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 Coughlin</i>	Date 5-24-23	Time 1815	Received by: (Signature) <i>Andrew Messo</i>	Date 5-24-23	Time 1830	
Relinquished by: (Signature) <i>Andrew Messo</i>	Date 5-24-23	Time 2400	Received by: (Signature) <i>Carth Man</i>	Date 5/25/23	Time 8:20	
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: 5/26/2023 2:02:26PM

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:	05/25/23 08:20	Work Order ID:	E305155
Phone:	(539) 573-4018	Date Logged In:	05/25/23 08:31	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/01/23 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.

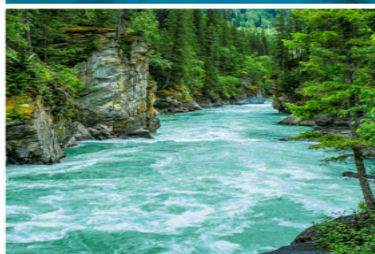
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E401135

Job Number: 01058-0007

Received: 1/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/29/24

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: 1/29/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E401135
Date Received: 1/23/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/23/2024 6:00:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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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Cell: 775-287-1762
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 09:38

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 15'	E401135-01A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.
BH01 18'	E401135-02A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.
BH01 20'	E401135-03A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:38:51AM
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BH01 15'

E401135-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.2 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404036	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
Surrogate: n-Nonane	96.6 %	50-200		01/24/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404037	
Chloride	4250	40.0	2	01/24/24	01/24/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:38:51AM

BH01 18'

E401135-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	99.4 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.0 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404036	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
Surrogate: n-Nonane	99.3 %	50-200		01/24/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404037	
Chloride	4990	40.0	2	01/24/24	01/24/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported: 1/29/2024 9:38:51AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH01 20'

E401135-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	99.5 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.5 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404036	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
Surrogate: n-Nonane	98.5 %	50-200		01/24/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404037	
Chloride	83.7	20.0	1	01/24/24	01/24/24	



WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:38:51AM

Volatile Organics by EPA 8021B

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 (2404029-BLK1)Prepared: 01/23/24 Analyzed: 01/24/24

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	8.08		8.00		101	70-130			

LCS (2404029-BS1)Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	4.00	0.0250	5.00		80.0	70-130			
Ethylbenzene	3.86	0.0250	5.00		77.2	70-130			
Toluene	4.00	0.0250	5.00		80.0	70-130			
o-Xylene	3.97	0.0250	5.00		79.4	70-130			
p,m-Xylene	7.98	0.0500	10.0		79.8	70-130			
Total Xylenes	12.0	0.0250	15.0		79.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.07		8.00		101	70-130			

Matrix Spike (2404029-MS1)Source: E401137-03Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	4.09	0.0250	5.00	ND	81.7	54-133			
Ethylbenzene	3.89	0.0250	5.00	ND	77.8	61-133			
Toluene	4.08	0.0250	5.00	ND	81.5	61-130			
o-Xylene	4.16	0.0250	5.00	ND	83.2	63-131			
p,m-Xylene	8.09	0.0500	10.0	ND	80.9	63-131			
Total Xylenes	12.2	0.0250	15.0	ND	81.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.00		8.00		100	70-130			

Matrix Spike Dup (2404029-MSD1)Source: E401137-03Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	4.56	0.0250	5.00	ND	91.1	54-133	10.9	20	
Ethylbenzene	4.36	0.0250	5.00	ND	87.3	61-133	11.5	20	
Toluene	4.55	0.0250	5.00	ND	91.0	61-130	11.0	20	
o-Xylene	4.58	0.0250	5.00	ND	91.7	63-131	9.71	20	
p,m-Xylene	9.04	0.0500	10.0	ND	90.4	63-131	11.1	20	
Total Xylenes	13.6	0.0250	15.0	ND	90.8	63-131	10.6	20	
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:38:51AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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 (2404029-BLK1) Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.2	70-130			

LCS (2404029-BS2) Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	37.9	20.0	50.0		75.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			

Matrix Spike (2404029-MS2) Source: E401137-03 Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	42.1	20.0	50.0	ND	84.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			

Matrix Spike Dup (2404029-MSD2) Source: E401137-03 Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	39.3	20.0	50.0	ND	78.7	70-130	6.84	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:38:51AM

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 (2404036-BLK1) Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.3		50.0		96.5	50-200			

LCS (2404036-BS1) Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	229	25.0	250		91.6	38-132			
Surrogate: n-Nonane	46.2		50.0		92.5	50-200			

Matrix Spike (2404036-MS1) Source: E401136-03 Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	237	25.0	250	ND	94.8	38-132			
Surrogate: n-Nonane	46.2		50.0		92.4	50-200			

Matrix Spike Dup (2404036-MSD1) Source: E401136-03 Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	240	25.0	250	ND	96.1	38-132	1.46	20	
Surrogate: n-Nonane	47.3		50.0		94.6	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:38:51AM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2404037-BLK1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Chloride	ND	20.0							
LCS (2404037-BS1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2404037-MS1)					Source: E401136-03		Prepared: 01/24/24 Analyzed: 01/24/24		
Chloride	260	20.0	250	ND	104	80-120			
Matrix Spike Dup (2404037-MSD1)					Source: E401136-03		Prepared: 01/24/24 Analyzed: 01/24/24		
Chloride	263	20.0	250	ND	105	80-120	0.997	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 09:38

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

envirotech

Envirotech Analytical Laboratory

Printed: 1/24/2024 8:49:39AM

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:	01/23/24 06:00	Work Order ID:	E401135
Phone:	(539) 573-4018	Date Logged In:	01/22/24 16:07	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	01/29/24 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.

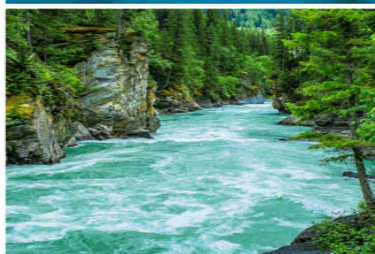
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E305154

Job Number: 01058-0007

Received: 5/25/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/30/23

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: 5/30/23



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16 #008
Workorder: E305154
Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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
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Raina Schwanz
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Rayny Hagan
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:25

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 0.5'	E305154-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.
BH02 4'	E305154-02A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:25:21PM

BH02 0.5'

E305154-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID	95.6 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.8 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
Surrogate: n-Nonane	92.0 %	50-200		05/26/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2321083	
Chloride	278	20.0	1	05/26/23	05/26/23	



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
5/30/2023 5:25:21PM

BH02 4'

E305154-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.6 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2321081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
<i>Surrogate: n-Nonane</i>						
	93.1 %	50-200		05/26/23	05/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2321083	
Chloride	34.1	20.0	1	05/26/23	05/26/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:25:21PM

Volatile Organics by EPA 8021B

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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	7.69		8.00		96.2	70-130			

LCS (2321067-BS1) Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.84	0.0250	5.00		96.7	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

Matrix Spike (2321067-MS1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.52	0.0250	5.00	ND	90.5	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.7	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2321067-MSD1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.10	0.0250	5.00	ND	81.9	54-133	9.94	20	
Ethylbenzene	4.34	0.0250	5.00	ND	86.7	61-133	9.63	20	
Toluene	4.39	0.0250	5.00	ND	87.9	61-130	9.60	20	
o-Xylene	4.43	0.0250	5.00	ND	88.6	63-131	10.1	20	
p,m-Xylene	8.83	0.0500	10.0	ND	88.3	63-131	9.41	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.4	63-131	9.66	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:25:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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

LCS (2321067-BS2) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

Matrix Spike (2321067-MS2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/27/23

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2321067-MSD2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:25:21PM

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 (2321081-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			

LCS (2321081-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			

Matrix Spike (2321081-MS1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	302	25.0	250	37.4	106	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			

Matrix Spike Dup (2321081-MSD1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	307	25.0	250	37.4	108	38-132	1.63	20	
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:25:21PM

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 (2321083-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	ND	20.0							
LCS (2321083-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2321083-MS1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	419	40.0	250	161	103	80-120			
Matrix Spike Dup (2321083-MSD1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	424	40.0	250	161	105	80-120	1.25	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:25

- 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.

Page 1 of

Page 12 of 13

Envirotech Analytical Laboratory

Printed: 5/26/2023 2:01:43PM

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:	05/25/23 08:20	Work Order ID:	E305154
Phone:	(539) 573-4018	Date Logged In:	05/25/23 08:30	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/01/23 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.

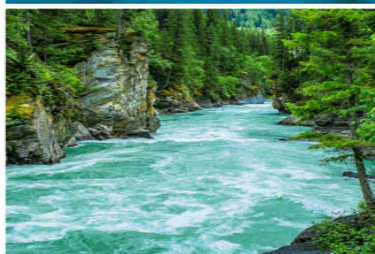
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E401136

Job Number: 01058-0007

Received: 1/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/29/24

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: 1/29/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E401136
Date Received: 1/23/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/23/2024 6:00:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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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Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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mgonzales@envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 09:34

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 7'	E401136-01A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.
BH02 12'	E401136-02A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.
BH02 15'	E401136-03A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.
BH02 18'	E401136-04A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.
BH02 20'	E401136-05A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno**Reported:**
1/29/2024 9:34:23AM

BH02 7'

E401136-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.3 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404036	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
<i>Surrogate: n-Nonane</i>						
	96.6 %	50-200		01/24/24	01/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2404037	
Chloride	ND	20.0	1	01/24/24	01/24/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:34:23AM

BH02 12'

E401136-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.4 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.3 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404036	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
<i>Surrogate: n-Nonane</i>						
	95.4 %	50-200		01/24/24	01/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2404037	
Chloride	ND	20.0	1	01/24/24	01/24/24	



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/29/2024 9:34:23AM

BH02 15'

E401136-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2404029
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2404029
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.1 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404036
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
<i>Surrogate: n-Nonane</i>						
	96.9 %	50-200		01/24/24	01/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2404037
Chloride	ND	20.0	1	01/24/24	01/24/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:34:23AM

BH02 18'

E401136-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	99.0 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.3 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404036	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
Surrogate: n-Nonane	98.4 %	50-200		01/24/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404037	
Chloride	ND	20.0	1	01/24/24	01/24/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:34:23AM

BH02 20'

E401136-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.8 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.6 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404036	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/25/24	
<i>Surrogate: n-Nonane</i>						
	97.8 %	50-200		01/24/24	01/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2404037	
Chloride	ND	20.0	1	01/24/24	01/24/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:34:23AM

Volatile Organics by EPA 8021B

Analyst: BA

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 (2404029-BLK1) Prepared: 01/23/24 Analyzed: 01/24/24

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	8.08		8.00		101	70-130			

LCS (2404029-BS1) Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	4.00	0.0250	5.00		80.0	70-130			
Ethylbenzene	3.86	0.0250	5.00		77.2	70-130			
Toluene	4.00	0.0250	5.00		80.0	70-130			
o-Xylene	3.97	0.0250	5.00		79.4	70-130			
p,m-Xylene	7.98	0.0500	10.0		79.8	70-130			
Total Xylenes	12.0	0.0250	15.0		79.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.07		8.00		101	70-130			

Matrix Spike (2404029-MS1) Source: E401137-03 Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	4.09	0.0250	5.00	ND	81.7	54-133			
Ethylbenzene	3.89	0.0250	5.00	ND	77.8	61-133			
Toluene	4.08	0.0250	5.00	ND	81.5	61-130			
o-Xylene	4.16	0.0250	5.00	ND	83.2	63-131			
p,m-Xylene	8.09	0.0500	10.0	ND	80.9	63-131			
Total Xylenes	12.2	0.0250	15.0	ND	81.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.00		8.00		100	70-130			

Matrix Spike Dup (2404029-MSD1) Source: E401137-03 Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	4.56	0.0250	5.00	ND	91.1	54-133	10.9	20	
Ethylbenzene	4.36	0.0250	5.00	ND	87.3	61-133	11.5	20	
Toluene	4.55	0.0250	5.00	ND	91.0	61-130	11.0	20	
o-Xylene	4.58	0.0250	5.00	ND	91.7	63-131	9.71	20	
p,m-Xylene	9.04	0.0500	10.0	ND	90.4	63-131	11.1	20	
Total Xylenes	13.6	0.0250	15.0	ND	90.8	63-131	10.6	20	
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:34:23AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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 (2404029-BLK1) Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.2	70-130			

LCS (2404029-BS2) Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	37.9	20.0	50.0		75.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			

Matrix Spike (2404029-MS2) Source: E401137-03 Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	42.1	20.0	50.0	ND	84.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			

Matrix Spike Dup (2404029-MSD2) Source: E401137-03 Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	39.3	20.0	50.0	ND	78.7	70-130	6.84	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:34:23AM

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 (2404036-BLK1) Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.3		50.0		96.5	50-200			

LCS (2404036-BS1) Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	229	25.0	250		91.6	38-132			
Surrogate: n-Nonane	46.2		50.0		92.5	50-200			

Matrix Spike (2404036-MS1) Source: E401136-03 Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	237	25.0	250	ND	94.8	38-132			
Surrogate: n-Nonane	46.2		50.0		92.4	50-200			

Matrix Spike Dup (2404036-MSD1) Source: E401136-03 Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	240	25.0	250	ND	96.1	38-132	1.46	20	
Surrogate: n-Nonane	47.3		50.0		94.6	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:34:23AM

Anions by EPA 300.0/9056A

Analyst: DT

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 (2404037-BLK1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Chloride	ND	20.0							
LCS (2404037-BS1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2404037-MS1)					Source: E401136-03		Prepared: 01/24/24 Analyzed: 01/24/24		
Chloride	260	20.0	250	ND	104	80-120			
Matrix Spike Dup (2404037-MSD1)					Source: E401136-03		Prepared: 01/24/24 Analyzed: 01/24/24		
Chloride	263	20.0	250	ND	105	80-120	0.997	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 09:34

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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.

Project: RDX 16 #008

Project Manager: Gilbert Moreno

Address: 13000 W County Rd 100

City, State, Zip: Odessa, TX, 79765

Phone: 832-541-7719

Email: Devon-team@etechenv.com

Collected by: Edyte Konan

Bill To

Attention: Jim Raley

Address: 5315 Buena Vista Dr.

City, State, Zip: Carlsbad, NM, 88220

Phone: 575-885-7502

Email: jim.raley@dvn.com

WO: 21141253

Incident ID: nAPP2307930900

Lab Use Only

Lab WO#

Job Number

1D

2D

3D

Standard

CWA

SDWA

RCRA

Analysis and Method

Depth (ft.)

TPH GRO/DRO/ORO by 8015

BTEX by 8021

VOC by 8260

Metals 6010

Chloride 300.0

BGDOC NM

GDOD TX

State

NM

CO

UT

AZ

TX

Remarks

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	GDOD TX	Remarks
9:30	01.18.24	S	1	BH02	1	7'						X		
9:40	01.18.24	S	1	BH02	2	12'						X		
9:50	01.18.24	S	1	BH02	3	15'						X		
10:00	01.18.24	S	1	BH02	4	18'						X		
10:10	01.18.24	S	1	BH02	5	20'						X		

Additional Instructions:

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

Sampled by: EK

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

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

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

Received on ice:

T1

T2

T3

AVG Temp °C

Lab Use Only

N

Y

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: 1/25/2024 2:10:19PM

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:	01/23/24 06:00	Work Order ID:	E401136
Phone:	(539) 573-4018	Date Logged In:	01/22/24 16:09	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	01/29/24 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.

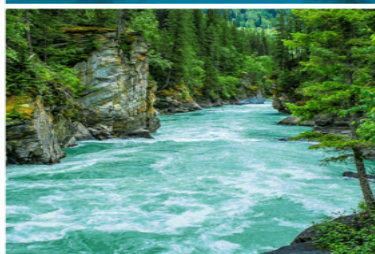
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E305153

Job Number: 01058-0007

Received: 5/25/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/30/23

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: 5/30/23



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16 #008
Workorder: E305153
Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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
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Raina Schwanz
Laboratory Administrator
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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	Project Name:	RDX 16 #008	Reported: 05/30/23 17:20
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
BH03 0.5'	E305153-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.
BH03 4'	E305153-02A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 5/30/2023 5:20:20PM
--	--	----------------------------------

BH03 0.5'

E305153-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID	94.7 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.4 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
Surrogate: n-Nonane	91.7 %	50-200		05/26/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2321083	
Chloride	161	40.0	2	05/26/23	05/26/23	



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
5/30/2023 5:20:20PM

BH03 4'

E305153-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321067
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.9 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321081
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
<i>Surrogate: n-Nonane</i>						
	91.9 %	50-200		05/26/23	05/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2321083
Chloride	21.8	20.0	1	05/26/23	05/26/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:20:20PM

Volatile Organics by EPA 8021B

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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	7.69		8.00		96.2	70-130			

LCS (2321067-BS1) Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.84	0.0250	5.00		96.7	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

Matrix Spike (2321067-MS1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.52	0.0250	5.00	ND	90.5	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.7	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2321067-MSD1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.10	0.0250	5.00	ND	81.9	54-133	9.94	20	
Ethylbenzene	4.34	0.0250	5.00	ND	86.7	61-133	9.63	20	
Toluene	4.39	0.0250	5.00	ND	87.9	61-130	9.60	20	
o-Xylene	4.43	0.0250	5.00	ND	88.6	63-131	10.1	20	
p,m-Xylene	8.83	0.0500	10.0	ND	88.3	63-131	9.41	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.4	63-131	9.66	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:20:20PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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

LCS (2321067-BS2) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

Matrix Spike (2321067-MS2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/27/23

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2321067-MSD2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:20:20PM

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 (2321081-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			

LCS (2321081-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			

Matrix Spike (2321081-MS1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	302	25.0	250	37.4	106	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			

Matrix Spike Dup (2321081-MSD1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	307	25.0	250	37.4	108	38-132	1.63	20	
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:20:20PM

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 (2321083-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	ND	20.0							
LCS (2321083-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2321083-MS1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	419	40.0	250	161	103	80-120			
Matrix Spike Dup (2321083-MSD1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	424	40.0	250	161	105	80-120	1.25	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:20

- 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.



[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) Edyta Konan	Date 05/24/23	Time 10:30	Received by: (Signature) Michelle Cuyals	Date 5-24-23	Time 1030	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished by: (Signature) Michelle Cuyals	Date 5-24-23	Time 1815	Received by: (Signature) Andrew Russo	Date 5-24-23	Time 1830	
Relinquished by: (Signature) Andrew Russo	Date 5-24-23	Time 2400	Received by: (Signature) Cath Man	Date 5/25/23	Time 8:20	T1 _____ T2 _____ T3 _____
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other				AVG Temp °C <u>4</u>		
				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: 5/26/2023 2:01:02PM

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:	05/25/23 08:20	Work Order ID:	E305153
Phone:	(539) 573-4018	Date Logged In:	05/25/23 08:29	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/01/23 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 16 #008

Work Order: E401137

Job Number: 01058-0007

Received: 1/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/29/24

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: 1/29/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E401137
Date Received: 1/23/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/23/2024 6:00:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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
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whinchman@envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 09:31

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 7'	E401137-01A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.
BH03 12'	E401137-02A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.
BH03 15'	E401137-03A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.
BH03 18'	E401137-04A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.
BH03 20'	E401137-05A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:31:31AM
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BH03 7'

E401137-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	98.5 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.1 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404036	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/25/24	
Surrogate: n-Nonane	98.6 %	50-200		01/24/24	01/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404037	
Chloride	62.5	20.0	1	01/24/24	01/24/24	



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/29/2024 9:31:31AM

BH03 12'

E401137-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.3 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404036	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/25/24	
<i>Surrogate: n-Nonane</i>						
	96.9 %	50-200		01/24/24	01/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2404037	
Chloride	61.5	20.0	1	01/24/24	01/24/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported: 1/29/2024 9:31:31AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH03 15'

E401137-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.4 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.8 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404036	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/25/24	
<i>Surrogate: n-Nonane</i>						
	96.3 %	50-200		01/24/24	01/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2404037	
Chloride	ND	20.0	1	01/24/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:31:31AM
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BH03 18'

E401137-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	98.2 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.6 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404036	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/25/24	
Surrogate: n-Nonane	94.4 %	50-200		01/24/24	01/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404037	
Chloride	64.8	20.0	1	01/24/24	01/24/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:31:31AM

BH03 20'

E401137-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Benzene	ND	0.0250	1	01/23/24	01/24/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/24/24	
Toluene	ND	0.0250	1	01/23/24	01/24/24	
o-Xylene	ND	0.0250	1	01/23/24	01/24/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/24/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/24/24	
Surrogate: 4-Bromochlorobenzene-PID	97.9 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.4 %	70-130		01/23/24	01/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404036	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/25/24	
Surrogate: n-Nonane	99.2 %	50-200		01/24/24	01/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404037	
Chloride	65.3	20.0	1	01/24/24	01/24/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:31:31AM

Volatile Organics by EPA 8021B

Analyst: BA

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 (2404029-BLK1) Prepared: 01/23/24 Analyzed: 01/24/24

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	8.08		8.00		101	70-130			

LCS (2404029-BS1) Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	4.00	0.0250	5.00		80.0	70-130			
Ethylbenzene	3.86	0.0250	5.00		77.2	70-130			
Toluene	4.00	0.0250	5.00		80.0	70-130			
o-Xylene	3.97	0.0250	5.00		79.4	70-130			
p,m-Xylene	7.98	0.0500	10.0		79.8	70-130			
Total Xylenes	12.0	0.0250	15.0		79.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.07		8.00		101	70-130			

Matrix Spike (2404029-MS1) Source: E401137-03 Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	4.09	0.0250	5.00	ND	81.7	54-133			
Ethylbenzene	3.89	0.0250	5.00	ND	77.8	61-133			
Toluene	4.08	0.0250	5.00	ND	81.5	61-130			
o-Xylene	4.16	0.0250	5.00	ND	83.2	63-131			
p,m-Xylene	8.09	0.0500	10.0	ND	80.9	63-131			
Total Xylenes	12.2	0.0250	15.0	ND	81.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.00		8.00		100	70-130			

Matrix Spike Dup (2404029-MSD1) Source: E401137-03 Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	4.56	0.0250	5.00	ND	91.1	54-133	10.9	20	
Ethylbenzene	4.36	0.0250	5.00	ND	87.3	61-133	11.5	20	
Toluene	4.55	0.0250	5.00	ND	91.0	61-130	11.0	20	
o-Xylene	4.58	0.0250	5.00	ND	91.7	63-131	9.71	20	
p,m-Xylene	9.04	0.0500	10.0	ND	90.4	63-131	11.1	20	
Total Xylenes	13.6	0.0250	15.0	ND	90.8	63-131	10.6	20	
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:31:31AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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 (2404029-BLK1) Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.2	70-130			

LCS (2404029-BS2) Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	37.9	20.0	50.0		75.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			

Matrix Spike (2404029-MS2) Source: E401137-03 Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	42.1	20.0	50.0	ND	84.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			

Matrix Spike Dup (2404029-MSD2) Source: E401137-03 Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	39.3	20.0	50.0	ND	78.7	70-130	6.84	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:31:31AM

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 (2404036-BLK1) Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.3		50.0		96.5	50-200			

LCS (2404036-BS1) Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	229	25.0	250		91.6	38-132			
Surrogate: n-Nonane	46.2		50.0		92.5	50-200			

Matrix Spike (2404036-MS1) Source: E401136-03 Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	237	25.0	250	ND	94.8	38-132			
Surrogate: n-Nonane	46.2		50.0		92.4	50-200			

Matrix Spike Dup (2404036-MSD1) Source: E401136-03 Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	240	25.0	250	ND	96.1	38-132	1.46	20	
Surrogate: n-Nonane	47.3		50.0		94.6	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:31:31AM

Anions by EPA 300.0/9056A

Analyst: DT

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 (2404037-BLK1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Chloride	ND	20.0							
LCS (2404037-BS1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2404037-MS1)					Source: E401136-03		Prepared: 01/24/24 Analyzed: 01/24/24		
Chloride	260	20.0	250	ND	104	80-120			
Matrix Spike Dup (2404037-MSD1)					Source: E401136-03		Prepared: 01/24/24 Analyzed: 01/24/24		
Chloride	263	20.0	250	ND	105	80-120	0.997	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 09:31

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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 1

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only						TAT				EPA Program			
Project: RDX 16 #008					Attention: Jim Raley		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 401137		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	GDGC TX	State					
Phone: 832-541-7719					Email: jim.raley@dvn.com										NM	CO	UT	AZ	TX	
Email: Devon-team@etechnv.com					WO: 21141253															
Incident ID: nAPP2307930900																				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks														
10:20	01.18.24	S	1	BH03	1	7'									X					
10:30	01.18.24	S	1	BH03	2	12'									X					
10:40	01.18.24	S	1	BH03	3	15'									X					
10:50	01.18.24	S	1	BH03	4	18'									X					
11:00	01.18.24	S	1	BH03	5	20'									X					
01/22/24																				
Additional Instructions:																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: EK																				
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only												
[Signature]		01/22/24	11:40	[Signature]		1-22-24	1140	Received on ice: Y / N												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3												
[Signature]		1-22-24	1630	[Signature]		1-22-24	1730													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C												
[Signature]		1-22-24	2400	[Signature]		1-23-24	0600	4												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																				
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																				
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



envirotech

Envirotech Analytical Laboratory

Printed: 1/25/2024 2:17:02PM

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:	01/23/24 06:00	Work Order ID:	E401137
Phone:	(539) 573-4018	Date Logged In:	01/22/24 16:10	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	01/29/24 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.

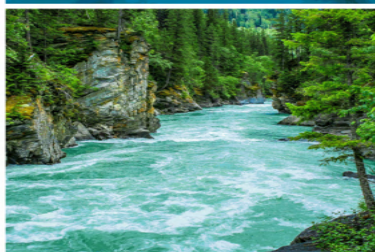
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E305151

Job Number: 01058-0007

Received: 5/25/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/30/23

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: 5/30/23



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16 #008
Workorder: E305151
Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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
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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	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 0.5'	E305151-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.
BH04 4'	E305151-02A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
5/30/2023 5:17:21PM

BH04 0.5'

E305151-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321061	
Benzene	ND	0.0250	1	05/25/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/25/23	05/27/23	
Toluene	ND	0.0250	1	05/25/23	05/27/23	
o-Xylene	ND	0.0250	1	05/25/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/25/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/25/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/25/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.5 %	70-130	05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2321057	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/25/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/25/23	05/26/23	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	05/25/23	05/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2321082	
Chloride	48.9	20.0	1	05/26/23	05/27/23	



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
5/30/2023 5:17:21PM

BH04 4'

E305151-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321061
Benzene	ND	0.0250	1	05/25/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/25/23	05/27/23	
Toluene	ND	0.0250	1	05/25/23	05/27/23	
o-Xylene	ND	0.0250	1	05/25/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/25/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/25/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321061
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/25/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.7 %	70-130	05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2321057
Diesel Range Organics (C10-C28)	ND	25.0	1	05/25/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/25/23	05/26/23	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	05/25/23	05/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2321082
Chloride	49.6	20.0	1	05/26/23	05/27/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:17:21PM

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 (2321061-BLK1)

Prepared: 05/25/23 Analyzed: 05/26/23

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	7.95		8.00		99.4	70-130			

LCS (2321061-BS1)

Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.31	0.0250	5.00		86.2	70-130			
Ethylbenzene	4.50	0.0250	5.00		90.0	70-130			
Toluene	4.65	0.0250	5.00		93.0	70-130			
o-Xylene	4.75	0.0250	5.00		95.0	70-130			
p,m-Xylene	9.32	0.0500	10.0		93.2	70-130			
Total Xylenes	14.1	0.0250	15.0		93.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.93		8.00		99.2	70-130			

Matrix Spike (2321061-MS1)

Source: E305149-03

Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.83	0.0250	5.00	ND	96.7	54-133			
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133			
Toluene	5.22	0.0250	5.00	ND	104	61-130			
o-Xylene	5.33	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.8	0.0250	15.0	ND	105	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.04		8.00		101	70-130			

Matrix Spike Dup (2321061-MSD1)

Source: E305149-03

Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.44	0.0250	5.00	ND	88.8	54-133	8.51	20	
Ethylbenzene	4.63	0.0250	5.00	ND	92.6	61-133	8.90	20	
Toluene	4.78	0.0250	5.00	ND	95.6	61-130	8.78	20	
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131	8.62	20	
p,m-Xylene	9.58	0.0500	10.0	ND	95.8	63-131	8.86	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.4	63-131	8.78	20	
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:17:21PM

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 (2321061-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			

LCS (2321061-BS2) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.1	70-130			

Matrix Spike (2321061-MS2) Source: E305149-03 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			

Matrix Spike Dup (2321061-MSD2) Source: E305149-03 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	40.9	20.0	50.0	ND	81.8	70-130	12.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.02		8.00		75.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:17:21PM

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 (2321057-BLK1)					Prepared: 05/25/23 Analyzed: 05/25/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.8		50.0		114	50-200			

LCS (2321057-BS1)					Prepared: 05/25/23 Analyzed: 05/25/23				
Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			

Matrix Spike (2321057-MS1)					Source: E305146-01		Prepared: 05/25/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	289	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	50.5		50.0		101	50-200			

Matrix Spike Dup (2321057-MSD1)					Source: E305146-01		Prepared: 05/25/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	285	25.0	250	ND	114	38-132	1.30	20	
Surrogate: n-Nonane	52.0		50.0		104	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:17:21PM

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 (2321082-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	ND	20.0							
LCS (2321082-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2321082-MS1)					Source: E305149-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	272	20.0	250	21.8	99.9	80-120			
Matrix Spike Dup (2321082-MSD1)					Source: E305149-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	290	20.0	250	21.8	107	80-120	6.42	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:17

- 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.

[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) Edyta Konan	Date 05/24/23	Time 10:30	Received by: (Signature) Michelle Cappel	Date 5/24/23	Time 10:30	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) Michelle Cappel	Date 5-24-23	Time 1615	Received by: (Signature) Andrew Musso	Date 5-24-23	Time 1830	
Relinquished by: (Signature) Andrew Musso	Date 5-24-23	Time 2400	Received by: (Signature) Cathy Mann	Date 5/25/23	Time 8:20	
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: 5/26/2023 1:58:43PM

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:	05/25/23 08:20	Work Order ID:	E305151
Phone:	(539) 573-4018	Date Logged In:	05/24/23 16:20	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/01/23 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.

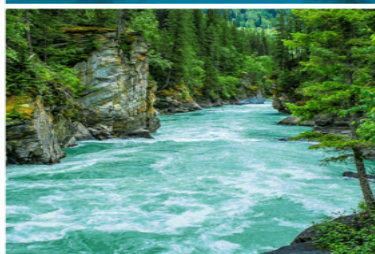
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E401138

Job Number: 01058-0007

Received: 1/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/29/24

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: 1/29/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E401138
Date Received: 1/23/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/23/2024 6:00:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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
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whinchman@envirotech-inc.com

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Laboratory Administrator
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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported: 01/29/24 09:48
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
BH04 7'	E401138-01A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.
BH04 12'	E401138-02A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:48:16AM
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BH04 7'

E401138-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404026	
Benzene	ND	0.0250	1	01/23/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/23/24	
Toluene	ND	0.0250	1	01/23/24	01/23/24	
o-Xylene	ND	0.0250	1	01/23/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	98.2 %	70-130		01/23/24	01/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.3 %	70-130		01/23/24	01/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
Surrogate: n-Nonane	81.3 %	50-200		01/24/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404037	
Chloride	67.0	20.0	1	01/24/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:48:16AM
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BH04 12'

E401138-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404026	
Benzene	ND	0.0250	1	01/23/24	01/23/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/23/24	
Toluene	ND	0.0250	1	01/23/24	01/23/24	
o-Xylene	ND	0.0250	1	01/23/24	01/23/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/23/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/23/24	
Surrogate: 4-Bromochlorobenzene-PID	96.3 %	70-130		01/23/24	01/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.6 %	70-130		01/23/24	01/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2404034	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/24/24	
Surrogate: n-Nonane	84.1 %	50-200		01/24/24	01/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404037	
Chloride	69.4	20.0	1	01/24/24	01/24/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:48:16AM

Volatile Organics by EPA 8021B

Analyst: EG

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 (2404026-BLK1) Prepared: 01/23/24 Analyzed: 01/23/24

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	7.55		8.00		94.4	70-130			

LCS (2404026-BS1) Prepared: 01/23/24 Analyzed: 01/23/24

Benzene	4.92	0.0250	5.00		98.3	70-130			
Ethylbenzene	4.84	0.0250	5.00		96.7	70-130			
Toluene	4.90	0.0250	5.00		97.9	70-130			
o-Xylene	4.84	0.0250	5.00		96.8	70-130			
p,m-Xylene	9.87	0.0500	10.0		98.7	70-130			
Total Xylenes	14.7	0.0250	15.0		98.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			

Matrix Spike (2404026-MS1) Source: E401128-01 Prepared: 01/23/24 Analyzed: 01/23/24

Benzene	5.20	0.0250	5.00	ND	104	54-133			
Ethylbenzene	5.12	0.0250	5.00	ND	102	61-133			
Toluene	5.19	0.0250	5.00	ND	104	61-130			
o-Xylene	5.13	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			

Matrix Spike Dup (2404026-MSD1) Source: E401128-01 Prepared: 01/23/24 Analyzed: 01/23/24

Benzene	5.30	0.0250	5.00	ND	106	54-133	1.94	20	
Ethylbenzene	5.23	0.0250	5.00	ND	105	61-133	2.25	20	
Toluene	5.30	0.0250	5.00	ND	106	61-130	1.95	20	
o-Xylene	5.24	0.0250	5.00	ND	105	63-131	2.16	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	2.28	20	
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131	2.24	20	
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:48:16AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

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 (2404026-BLK1) Prepared: 01/23/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.2	70-130			

LCS (2404026-BS2) Prepared: 01/23/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			

Matrix Spike (2404026-MS2) Source: E401128-01 Prepared: 01/23/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.6	70-130			

Matrix Spike Dup (2404026-MSD2) Source: E401128-01 Prepared: 01/23/24 Analyzed: 01/23/24

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0	ND	106	70-130	0.916	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:48:16AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

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 (2404034-BLK1) Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.0		50.0		86.1	50-200			

LCS (2404034-BS1) Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	197	25.0	250		78.8	38-132			
Surrogate: n-Nonane	42.5		50.0		85.0	50-200			

Matrix Spike (2404034-MS1) Source: E401130-01 Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	490	25.0	250	357	53.3	38-132			
Surrogate: n-Nonane	39.2		50.0		78.4	50-200			

Matrix Spike Dup (2404034-MSD1) Source: E401130-01 Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	565	25.0	250	357	83.2	38-132	14.2	20	
Surrogate: n-Nonane	42.7		50.0		85.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:48:16AM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2404037-BLK1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Chloride	ND	20.0							
LCS (2404037-BS1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2404037-MS1)					Source: E401136-03		Prepared: 01/24/24 Analyzed: 01/24/24		
Chloride	260	20.0	250	ND	104	80-120			
Matrix Spike Dup (2404037-MSD1)					Source: E401136-03		Prepared: 01/24/24 Analyzed: 01/24/24		
Chloride	263	20.0	250	ND	105	80-120	0.997	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 09:48

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



envirotech

Envirotech Analytical Laboratory

Printed: 1/25/2024 2:20:20PM

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:	01/23/24 06:00	Work Order ID:	E401138
Phone:	(539) 573-4018	Date Logged In:	01/22/24 16:10	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	01/29/24 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 16 #008

Work Order: E305152

Job Number: 01058-007

Received: 5/25/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/30/23

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: 5/30/23



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16 #008
Workorder: E305152
Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:18

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 0.5'	E305152-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.
BH05 4'	E305152-02A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-007
Project Manager: Gilbert Moreno

Reported:
5/30/2023 5:18:51PM

BH05 0.5'

E305152-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.6 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2321081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
<i>Surrogate: n-Nonane</i>						
	93.6 %	50-200		05/26/23	05/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2321082	
Chloride	ND	20.0	1	05/26/23	05/27/23	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported: 5/30/2023 5:18:51PM
5315 Buena Vista Dr	Project Number:	01058-007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH05 4'

E305152-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.6 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2321081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
<i>Surrogate: n-Nonane</i>						
	95.5 %	50-200		05/26/23	05/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2321082	
Chloride	ND	20.0	1	05/26/23	05/27/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:18:51PM

Volatile Organics by EPA 8021B

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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	7.69		8.00		96.2	70-130			

LCS (2321067-BS1) Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.84	0.0250	5.00		96.7	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

Matrix Spike (2321067-MS1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.52	0.0250	5.00	ND	90.5	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.7	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2321067-MSD1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.10	0.0250	5.00	ND	81.9	54-133	9.94	20	
Ethylbenzene	4.34	0.0250	5.00	ND	86.7	61-133	9.63	20	
Toluene	4.39	0.0250	5.00	ND	87.9	61-130	9.60	20	
o-Xylene	4.43	0.0250	5.00	ND	88.6	63-131	10.1	20	
p,m-Xylene	8.83	0.0500	10.0	ND	88.3	63-131	9.41	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.4	63-131	9.66	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:18:51PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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

LCS (2321067-BS2) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

Matrix Spike (2321067-MS2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/27/23

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2321067-MSD2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:18:51PM

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 (2321081-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			

LCS (2321081-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			

Matrix Spike (2321081-MS1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	302	25.0	250	37.4	106	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			

Matrix Spike Dup (2321081-MSD1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	307	25.0	250	37.4	108	38-132	1.63	20	
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:18:51PM

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 (2321082-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	ND	20.0							
LCS (2321082-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2321082-MS1)					Source: E305149-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	272	20.0	250	21.8	99.9	80-120			
Matrix Spike Dup (2321082-MSD1)					Source: E305149-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	290	20.0	250	21.8	107	80-120	6.42	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:18

- 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 16 #008	Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.		E305152		01058-0091					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		.) D/DRO/ORO by	8021	3260	010	300.0	NM	TX	State				
Phone: 432-305-6415	Email: jim.raley@dvn.com									NM	CO	UT	AZ	TX
Email: Devon-team@etechenv.com	WO: 21141253													
Collected by: Edyte Konan	Incident ID:													

[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) Edyte Konan	Date 05/24/23	Time 10:30	Received by: (Signature) Michelle Campbell	Date 5-24-23	Time 1030	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) Michelle Campbell	Date 5-24-23	Time 1815	Received by: (Signature) Andrew Mose	Date 5-24-23	Time 1930	
Relinquished by: (Signature) Andrew Mose	Date 5-24-23	Time 2400	Received by: (Signature) Cathy Man	Date 5/25/23	Time 8:20	

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: 5/26/2023 1:59:59PM

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:	05/25/23 08:20	Work Order ID:	E305152
Phone:	(539) 573-4018	Date Logged In:	05/25/23 08:27	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/01/23 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.



envirotech

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E401139

Job Number: 01058-0007

Received: 1/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/29/24

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: 1/29/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E401139
Date Received: 1/23/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/23/2024 6:00:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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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Cell: 775-287-1762
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Laboratory Administrator
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported: 01/29/24 09:26
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
BH05 7'	E401139-01A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.
BH05 12'	E401139-02A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.
BH05 15'	E401139-03A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.
BH05 18'	E401139-04A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.
BH05 20'	E401139-05A	Soil	01/18/24	01/23/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:26:45AM

BH05 7'

E401139-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Benzene	ND	0.0250	1	01/23/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/25/24	
Toluene	ND	0.0250	1	01/23/24	01/25/24	
o-Xylene	ND	0.0250	1	01/23/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/25/24	
Surrogate: 4-Bromochlorobenzene-PID	95.4 %	70-130		01/23/24	01/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.8 %	70-130		01/23/24	01/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404036	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/25/24	
Surrogate: n-Nonane	90.7 %	50-200		01/24/24	01/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2404039	
Chloride	63.3	20.0	1	01/24/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:26:45AM
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BH05 12'

E401139-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Benzene	ND	0.0250	1	01/23/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/25/24	
Toluene	ND	0.0250	1	01/23/24	01/25/24	
o-Xylene	ND	0.0250	1	01/23/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		01/23/24	01/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.3 %	70-130		01/23/24	01/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404036	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/25/24	
<i>Surrogate: n-Nonane</i>						
	99.1 %	50-200		01/24/24	01/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2404039	
Chloride	65.2	20.0	1	01/24/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:26:45AM
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BH05 15'

E401139-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Benzene	ND	0.0250	1	01/23/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/25/24	
Toluene	ND	0.0250	1	01/23/24	01/25/24	
o-Xylene	ND	0.0250	1	01/23/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		01/23/24	01/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.4 %	70-130		01/23/24	01/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404036	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/25/24	
<i>Surrogate: n-Nonane</i>						
	97.8 %	50-200		01/24/24	01/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2404039	
Chloride	ND	20.0	1	01/24/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:26:45AM
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BH05 18'

E401139-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Benzene	ND	0.0250	1	01/23/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/25/24	
Toluene	ND	0.0250	1	01/23/24	01/25/24	
o-Xylene	ND	0.0250	1	01/23/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/25/24	
Surrogate: 4-Bromochlorobenzene-PID	94.9 %	70-130		01/23/24	01/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.6 %	70-130		01/23/24	01/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404036	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/25/24	
Surrogate: n-Nonane	98.5 %	50-200		01/24/24	01/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404039	
Chloride	64.5	20.0	1	01/24/24	01/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/29/2024 9:26:45AM
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BH05 20'

E401139-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Benzene	ND	0.0250	1	01/23/24	01/25/24	
Ethylbenzene	ND	0.0250	1	01/23/24	01/25/24	
Toluene	ND	0.0250	1	01/23/24	01/25/24	
o-Xylene	ND	0.0250	1	01/23/24	01/25/24	
p,m-Xylene	ND	0.0500	1	01/23/24	01/25/24	
Total Xylenes	ND	0.0250	1	01/23/24	01/25/24	
Surrogate: 4-Bromochlorobenzene-PID	95.0 %	70-130		01/23/24	01/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2404029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/23/24	01/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.5 %	70-130		01/23/24	01/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404036	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/24/24	01/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/24/24	01/25/24	
Surrogate: n-Nonane	101 %	50-200		01/24/24	01/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2404039	
Chloride	62.5	20.0	1	01/24/24	01/24/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:26:45AM

Volatile Organics by EPA 8021B

Analyst: BA

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 (2404029-BLK1) Prepared: 01/23/24 Analyzed: 01/24/24

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	8.08		8.00		101	70-130			

LCS (2404029-BS1) Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	4.00	0.0250	5.00		80.0	70-130			
Ethylbenzene	3.86	0.0250	5.00		77.2	70-130			
Toluene	4.00	0.0250	5.00		80.0	70-130			
o-Xylene	3.97	0.0250	5.00		79.4	70-130			
p,m-Xylene	7.98	0.0500	10.0		79.8	70-130			
Total Xylenes	12.0	0.0250	15.0		79.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.07		8.00		101	70-130			

Matrix Spike (2404029-MS1) Source: E401137-03 Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	4.09	0.0250	5.00	ND	81.7	54-133			
Ethylbenzene	3.89	0.0250	5.00	ND	77.8	61-133			
Toluene	4.08	0.0250	5.00	ND	81.5	61-130			
o-Xylene	4.16	0.0250	5.00	ND	83.2	63-131			
p,m-Xylene	8.09	0.0500	10.0	ND	80.9	63-131			
Total Xylenes	12.2	0.0250	15.0	ND	81.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.00		8.00		100	70-130			

Matrix Spike Dup (2404029-MSD1) Source: E401137-03 Prepared: 01/23/24 Analyzed: 01/24/24

Benzene	4.56	0.0250	5.00	ND	91.1	54-133	10.9	20	
Ethylbenzene	4.36	0.0250	5.00	ND	87.3	61-133	11.5	20	
Toluene	4.55	0.0250	5.00	ND	91.0	61-130	11.0	20	
o-Xylene	4.58	0.0250	5.00	ND	91.7	63-131	9.71	20	
p,m-Xylene	9.04	0.0500	10.0	ND	90.4	63-131	11.1	20	
Total Xylenes	13.6	0.0250	15.0	ND	90.8	63-131	10.6	20	
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:26:45AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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 (2404029-BLK1) Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.2	70-130			

LCS (2404029-BS2) Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	37.9	20.0	50.0		75.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			

Matrix Spike (2404029-MS2) Source: E401137-03 Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	42.1	20.0	50.0	ND	84.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			

Matrix Spike Dup (2404029-MSD2) Source: E401137-03 Prepared: 01/23/24 Analyzed: 01/24/24

Gasoline Range Organics (C6-C10)	39.3	20.0	50.0	ND	78.7	70-130	6.84	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:26:45AM

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 (2404036-BLK1) Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.3		50.0		96.5	50-200			

LCS (2404036-BS1) Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	229	25.0	250		91.6	38-132			
Surrogate: n-Nonane	46.2		50.0		92.5	50-200			

Matrix Spike (2404036-MS1) Source: E401136-03 Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	237	25.0	250	ND	94.8	38-132			
Surrogate: n-Nonane	46.2		50.0		92.4	50-200			

Matrix Spike Dup (2404036-MSD1) Source: E401136-03 Prepared: 01/24/24 Analyzed: 01/24/24

Diesel Range Organics (C10-C28)	240	25.0	250	ND	96.1	38-132	1.46	20	
Surrogate: n-Nonane	47.3		50.0		94.6	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/29/2024 9:26:45AM

Anions by EPA 300.0/9056A

Analyst: DT

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 (2404039-BLK1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Chloride	ND	20.0							
LCS (2404039-BS1)					Prepared: 01/24/24 Analyzed: 01/24/24				
Chloride	245	20.0	250		98.1	90-110			
Matrix Spike (2404039-MS1)					Source: E401139-04		Prepared: 01/24/24 Analyzed: 01/24/24		
Chloride	314	20.0	250	64.5	99.6	80-120			
Matrix Spike Dup (2404039-MSD1)					Source: E401139-04		Prepared: 01/24/24 Analyzed: 01/24/24		
Chloride	314	20.0	250	64.5	99.9	80-120	0.181	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/29/24 09:26

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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 16 #008					Attention: Jim Raley		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 401139		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/DR/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@dvn.com										NM	CO	UT	AZ	TX		
Email: Devon-team@etechnv.com					WO: 21141253																
Incident ID: nAPP2307930900																					
Collected by: Edyte Konan																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											Remarks					
11:30	01.18.24	S	1	BH05	1	7'							X								
11:40	01.18.24	S	1	BH05	2	12'							X								
11:50	01.18.24	S	1	BH05	3	15'							X								
12:00	01.18.24	S	1	BH05	4	18'							X								
12:10	01.18.24	S	1	BH05	5	20'							X								
01/22/24																					
Additional Instructions:																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: EK																					
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only													
[Signature]		01/22/24	1140	[Signature]		1-22-24	1140	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													
[Signature]		1-22-24	1630	[Signature]		1-22-24	1730														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C													
[Signature]		1-22-24	2400	[Signature]		1-23-24	0600	4													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																					
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					



Envirotech Analytical Laboratory

Printed: 1/25/2024 2:32:27PM

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:	01/23/24 06:00	Work Order ID:	E401139
Phone:	(539) 573-4018	Date Logged In:	01/22/24 16:10	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	01/29/24 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.

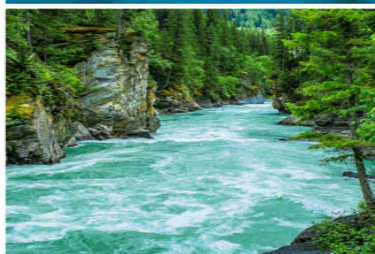
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E305150

Job Number: 01058-0007

Received: 5/25/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/30/23

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: 5/30/23



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16 #008
Workorder: E305150
Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH06 0.5'	E305150-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.
BH06 4'	E305150-02A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
5/30/2023 5:23:53PM

BH06 0.5'

E305150-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321061	
Benzene	ND	0.0250	1	05/25/23	05/27/23	
Ethylbenzene	0.0454	0.0250	1	05/25/23	05/27/23	
Toluene	ND	0.0250	1	05/25/23	05/27/23	
o-Xylene	0.0636	0.0250	1	05/25/23	05/27/23	
p,m-Xylene	0.157	0.0500	1	05/25/23	05/27/23	
Total Xylenes	0.221	0.0250	1	05/25/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	109 %	70-130		05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/25/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2321057	
Diesel Range Organics (C10-C28)	611	25.0	1	05/25/23	05/26/23	
Oil Range Organics (C28-C36)	255	50.0	1	05/25/23	05/26/23	
<i>Surrogate: n-Nonane</i>						
	124 %	50-200		05/25/23	05/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2321082	
Chloride	2590	20.0	1	05/26/23	05/27/23	



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
5/30/2023 5:23:53PM

BH06 4'

E305150-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2321061	
Benzene	ND	0.0250	1	05/25/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/25/23	05/27/23	
Toluene	ND	0.0250	1	05/25/23	05/27/23	
o-Xylene	ND	0.0250	1	05/25/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/25/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/25/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2321061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/25/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.3 %	70-130	05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2321057	
Diesel Range Organics (C10-C28)	34.4	25.0	1	05/25/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/25/23	05/26/23	
<i>Surrogate: n-Nonane</i>		110 %	50-200	05/25/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2321082	
Chloride	91.2	20.0	1	05/26/23	05/27/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:23:53PM

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 (2321061-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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	7.95		8.00		99.4	70-130			

LCS (2321061-BS1) Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.31	0.0250	5.00		86.2	70-130			
Ethylbenzene	4.50	0.0250	5.00		90.0	70-130			
Toluene	4.65	0.0250	5.00		93.0	70-130			
o-Xylene	4.75	0.0250	5.00		95.0	70-130			
p,m-Xylene	9.32	0.0500	10.0		93.2	70-130			
Total Xylenes	14.1	0.0250	15.0		93.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.93		8.00		99.2	70-130			

Matrix Spike (2321061-MS1) Source: E305149-03 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.83	0.0250	5.00	ND	96.7	54-133			
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133			
Toluene	5.22	0.0250	5.00	ND	104	61-130			
o-Xylene	5.33	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.8	0.0250	15.0	ND	105	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.04		8.00		101	70-130			

Matrix Spike Dup (2321061-MSD1) Source: E305149-03 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.44	0.0250	5.00	ND	88.8	54-133	8.51	20	
Ethylbenzene	4.63	0.0250	5.00	ND	92.6	61-133	8.90	20	
Toluene	4.78	0.0250	5.00	ND	95.6	61-130	8.78	20	
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131	8.62	20	
p,m-Xylene	9.58	0.0500	10.0	ND	95.8	63-131	8.86	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.4	63-131	8.78	20	
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:23:53PM

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 (2321061-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			

LCS (2321061-BS2) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.1	70-130			

Matrix Spike (2321061-MS2) Source: E305149-03 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			

Matrix Spike Dup (2321061-MSD2) Source: E305149-03 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	40.9	20.0	50.0	ND	81.8	70-130	12.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.02		8.00		75.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:23:53PM

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 (2321057-BLK1)					Prepared: 05/25/23 Analyzed: 05/25/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.8		50.0		114	50-200			

LCS (2321057-BS1)					Prepared: 05/25/23 Analyzed: 05/25/23				
Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			

Matrix Spike (2321057-MS1)					Source: E305146-01		Prepared: 05/25/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	289	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	50.5		50.0		101	50-200			

Matrix Spike Dup (2321057-MSD1)					Source: E305146-01		Prepared: 05/25/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	285	25.0	250	ND	114	38-132	1.30	20	
Surrogate: n-Nonane	52.0		50.0		104	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:23:53PM

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 (2321082-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	ND	20.0							
LCS (2321082-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2321082-MS1)					Source: E305149-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	272	20.0	250	21.8	99.9	80-120			
Matrix Spike Dup (2321082-MSD1)					Source: E305149-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	290	20.0	250	21.8	107	80-120	6.42	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:23

- 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.



[illegible][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.

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>Edeye Konan</i>	Date 05/24/23	Time 10:30	Received by: (Signature) <i>Micelle R. Gault</i>	Date 5/24/23	Time 10:30	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>Micelle R. Gault</i>	Date 5-24-23	Time 1815	Received by: (Signature) <i>Andrew Messo</i>	Date 5-24-23	Time 1830	
Relinquished by: (Signature) <i>Andrew Messo</i>	Date 5-24-23	Time 2400	Received by: (Signature) <i>Cathy Mon</i>	Date 5/25/23	Time 8:20	
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: 5/26/2023 1:57:24PM

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:	05/25/23 08:20	Work Order ID:	E305150
Phone:	(539) 573-4018	Date Logged In:	05/24/23 16:19	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/01/23 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 16 #008					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 305150		D1058-0007					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: 432-305-6415					Email: jim.raley@dv.com										NM	CO	UT	AZ	TX		
Email: Devon-team@etechnv.com					WO: 21141253																
Collected by: Edyte Konan					Incident ID: NAPP2301930900												Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																
13:00	5/22/2023	S	1	BH06	1	0.5'							X				Added incident				
13:20	5/22/2023	S	1	BH06	2	4'							X				# to COC per Gilbert.				
																	5/26/23 CM				

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.

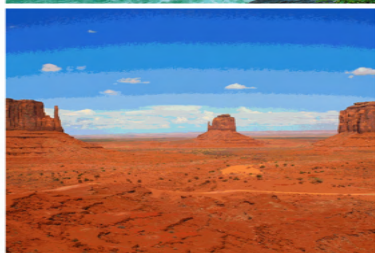
Sampled by:

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 5 °C on subsequent days.

Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only	
Edyte Konan		05/24/23	10:30	Michelle R. Gault		5/24/23	10:30	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N	
Michelle R. Gault		5/24/23	1815	Andrew Messo		5/24/23	1830	T1 _____ T2 _____ T3 _____	
Andrew Messo		5/24/23	2400	Cathy Mon		5/25/23	8:20	AVG Temp °C 4	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____								Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	

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

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E406236

Job Number: 01058-0007

Received: 6/26/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/28/24

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: 6/28/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16 #008
Workorder: E406236
Date Received: 6/26/2024 6:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/26/2024 6:00:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/28/24 08:42

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH07 0.5'	E406236-01A	Soil	06/21/24	06/26/24	Glass Jar, 2 oz.
BH07 4'	E406236-02A	Soil	06/21/24	06/26/24	Glass Jar, 2 oz.
BH07 8'	E406236-03A	Soil	06/21/24	06/26/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/28/2024 8:42:24AM
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BH07 0.5'

E406236-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2426036	
Benzene	ND	0.0250	1	06/26/24	06/27/24	
Ethylbenzene	ND	0.0250	1	06/26/24	06/27/24	
Toluene	ND	0.0250	1	06/26/24	06/27/24	
o-Xylene	ND	0.0250	1	06/26/24	06/27/24	
p,m-Xylene	ND	0.0500	1	06/26/24	06/27/24	
Total Xylenes	ND	0.0250	1	06/26/24	06/27/24	
Surrogate: 4-Bromochlorobenzene-PID	93.5 %	70-130		06/26/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2426036	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/24	06/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	103 %	70-130		06/26/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2426034	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/24	06/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/24	06/26/24	
Surrogate: n-Nonane	99.8 %	50-200		06/26/24	06/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2426038	
Chloride	11300	200	10	06/26/24	06/26/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/28/2024 8:42:24AM

BH07 4'

E406236-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2426036
Benzene	ND	0.0250	1	06/26/24	06/27/24	
Ethylbenzene	ND	0.0250	1	06/26/24	06/27/24	
Toluene	ND	0.0250	1	06/26/24	06/27/24	
o-Xylene	ND	0.0250	1	06/26/24	06/27/24	
p,m-Xylene	ND	0.0500	1	06/26/24	06/27/24	
Total Xylenes	ND	0.0250	1	06/26/24	06/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		06/26/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2426036
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/24	06/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		06/26/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2426034
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/24	06/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/24	06/26/24	
<i>Surrogate: n-Nonane</i>						
	99.0 %	50-200		06/26/24	06/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2426038
Chloride	14500	200	10	06/26/24	06/26/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/28/2024 8:42:24AM

BH07 8'

E406236-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2426036	
Benzene	ND	0.0250	1	06/26/24	06/27/24	
Ethylbenzene	ND	0.0250	1	06/26/24	06/27/24	
Toluene	ND	0.0250	1	06/26/24	06/27/24	
o-Xylene	ND	0.0250	1	06/26/24	06/27/24	
p,m-Xylene	ND	0.0500	1	06/26/24	06/27/24	
Total Xylenes	ND	0.0250	1	06/26/24	06/27/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		06/26/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2426036	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/24	06/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	104 %	70-130		06/26/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2426034	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/24	06/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/24	06/26/24	
Surrogate: n-Nonane	102 %	50-200		06/26/24	06/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2426038	
Chloride	1670	40.0	2	06/26/24	06/26/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/28/2024 8:42:24AM

Volatile Organics by EPA 8021B

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 (2426036-BLK1)

Prepared: 06/26/24 Analyzed: 06/26/24

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	7.25		8.00		90.6	70-130			

LCS (2426036-BS1)

Prepared: 06/26/24 Analyzed: 06/26/24

Benzene	5.27	0.0250	5.00		105	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.0	70-130			
Toluene	5.19	0.0250	5.00		104	70-130			
o-Xylene	5.06	0.0250	5.00		101	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			

Matrix Spike (2426036-MS1)

Source: E406232-07 Prepared: 06/26/24 Analyzed: 06/26/24

Benzene	10.9	0.0500	10.0	ND	109	54-133			
Ethylbenzene	10.3	0.0500	10.0	ND	103	61-133			
Toluene	10.7	0.0500	10.0	ND	107	61-130			
o-Xylene	10.5	0.0500	10.0	ND	105	63-131			
p,m-Xylene	21.1	0.100	20.0	ND	106	63-131			
Total Xylenes	31.6	0.0500	30.0	ND	105	63-131			
Surrogate: 4-Bromochlorobenzene-PID	15.1		16.0		94.3	70-130			

Matrix Spike Dup (2426036-MSD1)

Source: E406232-07 Prepared: 06/26/24 Analyzed: 06/26/24

Benzene	10.4	0.0500	10.0	ND	104	54-133	4.70	20	
Ethylbenzene	9.76	0.0500	10.0	ND	97.6	61-133	4.97	20	
Toluene	10.2	0.0500	10.0	ND	102	61-130	4.91	20	
o-Xylene	10.0	0.0500	10.0	ND	100	63-131	4.78	20	
p,m-Xylene	20.1	0.100	20.0	ND	101	63-131	4.89	20	
Total Xylenes	30.1	0.0500	30.0	ND	100	63-131	4.85	20	
Surrogate: 4-Bromochlorobenzene-PID	15.0		16.0		94.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/28/2024 8:42:24AM

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 (2426036-BLK1) Prepared: 06/26/24 Analyzed: 06/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.37		8.00		105	70-130			

LCS (2426036-BS2) Prepared: 06/26/24 Analyzed: 06/26/24

Gasoline Range Organics (C6-C10)	50.3	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.48		8.00		106	70-130			

Matrix Spike (2426036-MS2) Source: E406232-07 Prepared: 06/26/24 Analyzed: 06/26/24

Gasoline Range Organics (C6-C10)	102	40.0	100	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	16.9		16.0		106	70-130			

Matrix Spike Dup (2426036-MSD2) Source: E406232-07 Prepared: 06/26/24 Analyzed: 06/26/24

Gasoline Range Organics (C6-C10)	104	40.0	100	ND	104	70-130	2.32	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	16.8		16.0		105	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/28/2024 8:42:24AM

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 (2426034-BLK1) Prepared: 06/26/24 Analyzed: 06/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.6		50.0		107	50-200			

LCS (2426034-BS1) Prepared: 06/26/24 Analyzed: 06/27/24

Diesel Range Organics (C10-C28)	305	25.0	250		122	38-132			
Surrogate: n-Nonane	54.2		50.0		108	50-200			

Matrix Spike (2426034-MS1) Source: E406232-05 Prepared: 06/26/24 Analyzed: 06/27/24

Diesel Range Organics (C10-C28)	315	25.0	250	ND	126	38-132			
Surrogate: n-Nonane	54.2		50.0		108	50-200			

Matrix Spike Dup (2426034-MSD1) Source: E406232-05 Prepared: 06/26/24 Analyzed: 06/27/24

Diesel Range Organics (C10-C28)	325	25.0	250	ND	130	38-132	3.13	20	
Surrogate: n-Nonane	54.5		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/28/2024 8:42:24AM

Anions by EPA 300.0/9056A

Analyst: JM

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 (2426038-BLK1)					Prepared: 06/26/24 Analyzed: 06/26/24				
Chloride	ND	20.0							
LCS (2426038-BS1)					Prepared: 06/26/24 Analyzed: 06/26/24				
Chloride	249	20.0	250		99.5	90-110			
Matrix Spike (2426038-MS1)					Source: E406232-02		Prepared: 06/26/24 Analyzed: 06/26/24		
Chloride	451	20.0	250	200	100	80-120			
Matrix Spike Dup (2426038-MSD1)					Source: E406232-02		Prepared: 06/26/24 Analyzed: 06/26/24		
Chloride	454	20.0	250	200	102	80-120	0.604	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/28/24 08:42

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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: 21141253 Incident ID: nAPP2307930900		Lab Use Only				TAT			EPA Program										
Project: RDX 16 #008				Lab WO#	Job Number		1D	2D	3D	Standard	CWA	SDWA									
Project Manager: Anna Byers				E 406236		01058-0007					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: 432-305-6415												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	06.21.24	S	1	BH07	1	0.5'															
10:10	06.21.24	S	1	BH07	2	4'															
10:20	06.21.24	S	1	BH07	3	8'															
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 6-25-24 Time 1100												Received by: (Signature) _____ Date 6-25-24 Time 1100									
Relinquished by: (Signature) _____ Date 6-25-24 Time 1530												Received by: (Signature) _____ Date 6-25-24 Time 1700									
Relinquished by: (Signature) _____ Date 6-25-24 Time 2315												Received by: (Signature) _____ Date 6-26-24 Time 0600									
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: 6/27/2024 12:06:31PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	06/26/24 06:00	Work Order ID:	E406236
Phone:	(575) 200-6754	Date Logged In:	06/25/24 16:44	Logged In By:	Raina Schwanz
Email:	anna@etechnv.vom	Due Date:	07/02/24 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:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E406234

Job Number: 01058-0007

Received: 6/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/27/24

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: 6/27/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16 #008
Workorder: E406234
Date Received: 6/26/2024 6:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/26/2024 6:00:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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
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Cell: 775-287-1762
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/27/24 16:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH08 0.5'	E406234-01A	Soil	06/21/24	06/26/24	Glass Jar, 2 oz.
BH08 4'	E406234-02A	Soil	06/21/24	06/26/24	Glass Jar, 2 oz.
BH08 8'	E406234-03A	Soil	06/21/24	06/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/27/2024 4:01:36PM
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BH08 0.5'

E406234-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2426035	
Benzene	ND	0.0250	1	06/26/24	06/27/24	
Ethylbenzene	ND	0.0250	1	06/26/24	06/27/24	
Toluene	ND	0.0250	1	06/26/24	06/27/24	
o-Xylene	ND	0.0250	1	06/26/24	06/27/24	
p,m-Xylene	ND	0.0500	1	06/26/24	06/27/24	
Total Xylenes	ND	0.0250	1	06/26/24	06/27/24	
Surrogate: 4-Bromochlorobenzene-PID	93.4 %	70-130		06/26/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2426035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/24	06/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.8 %	70-130		06/26/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2426032	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/24	06/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/24	06/27/24	
Surrogate: n-Nonane	90.5 %	50-200		06/26/24	06/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2426031	
Chloride	13900	200	10	06/26/24	06/26/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	Reported: 6/27/2024 4:01:36PM

BH08 4'

E406234-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2426035	
Benzene	ND	0.0250	1	06/26/24	06/27/24	
Ethylbenzene	ND	0.0250	1	06/26/24	06/27/24	
Toluene	ND	0.0250	1	06/26/24	06/27/24	
o-Xylene	ND	0.0250	1	06/26/24	06/27/24	
p,m-Xylene	ND	0.0500	1	06/26/24	06/27/24	
Total Xylenes	ND	0.0250	1	06/26/24	06/27/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		06/26/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2426035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/24	06/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.6 %	70-130		06/26/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2426032	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/24	06/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/24	06/27/24	
Surrogate: n-Nonane	103 %	50-200		06/26/24	06/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2426031	
Chloride	2420	40.0	2	06/26/24	06/26/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/27/2024 4:01:36PM

BH08 8'

E406234-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2426035	
Benzene	ND	0.0250	1	06/26/24	06/27/24	
Ethylbenzene	ND	0.0250	1	06/26/24	06/27/24	
Toluene	ND	0.0250	1	06/26/24	06/27/24	
o-Xylene	ND	0.0250	1	06/26/24	06/27/24	
p,m-Xylene	ND	0.0500	1	06/26/24	06/27/24	
Total Xylenes	ND	0.0250	1	06/26/24	06/27/24	
Surrogate: 4-Bromochlorobenzene-PID	93.1 %	70-130		06/26/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2426035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/24	06/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.6 %	70-130		06/26/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2426032	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/24	06/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/24	06/27/24	
Surrogate: n-Nonane	98.4 %	50-200		06/26/24	06/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2426031	
Chloride	1660	20.0	1	06/26/24	06/26/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/27/2024 4:01:36PM

Volatile Organics by EPA 8021B

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 (2426035-BLK1) Prepared: 06/26/24 Analyzed: 06/26/24

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	7.27		8.00		90.9	70-130			

LCS (2426035-BS1) Prepared: 06/26/24 Analyzed: 06/26/24

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	4.90	0.0250	5.00		98.1	70-130			
Toluene	5.01	0.0250	5.00		100	70-130			
o-Xylene	4.89	0.0250	5.00		97.8	70-130			
p,m-Xylene	9.96	0.0500	10.0		99.6	70-130			
Total Xylenes	14.8	0.0250	15.0		99.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.6	70-130			

Matrix Spike (2426035-MS1) Source: E406231-05 Prepared: 06/26/24 Analyzed: 06/26/24

Benzene	10.1	0.0500	10.0	ND	101	54-133			
Ethylbenzene	9.74	0.0500	10.0	ND	97.4	61-133			
Toluene	9.95	0.0500	10.0	ND	99.5	61-130			
o-Xylene	9.69	0.0500	10.0	ND	96.9	63-131			
p,m-Xylene	19.7	0.100	20.0	ND	98.7	63-131			
Total Xylenes	29.4	0.0500	30.0	ND	98.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	14.7		16.0		92.2	70-130			

Matrix Spike Dup (2426035-MSD1) Source: E406231-05 Prepared: 06/26/24 Analyzed: 06/26/24

Benzene	10.1	0.0500	10.0	ND	101	54-133	0.390	20	
Ethylbenzene	9.69	0.0500	10.0	ND	96.9	61-133	0.509	20	
Toluene	9.90	0.0500	10.0	ND	99.0	61-130	0.568	20	
o-Xylene	9.66	0.0500	10.0	ND	96.6	63-131	0.253	20	
p,m-Xylene	19.6	0.100	20.0	ND	98.1	63-131	0.628	20	
Total Xylenes	29.3	0.0500	30.0	ND	97.6	63-131	0.504	20	
Surrogate: 4-Bromochlorobenzene-PID	14.8		16.0		92.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/27/2024 4:01:36PM

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 (2426035-BLK1) Prepared: 06/26/24 Analyzed: 06/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

LCS (2426035-BS2) Prepared: 06/26/24 Analyzed: 06/26/24

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			

Matrix Spike (2426035-MS2) Source: E406231-05 Prepared: 06/26/24 Analyzed: 06/26/24

Gasoline Range Organics (C6-C10)	98.6	40.0	100	ND	98.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.5		16.0		96.7	70-130			

Matrix Spike Dup (2426035-MSD2) Source: E406231-05 Prepared: 06/26/24 Analyzed: 06/26/24

Gasoline Range Organics (C6-C10)	95.4	40.0	100	ND	95.4	70-130	3.27	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.5		16.0		97.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/27/2024 4:01:36PM

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 (2426032-BLK1) Prepared: 06/26/24 Analyzed: 06/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS (2426032-BS1) Prepared: 06/26/24 Analyzed: 06/26/24

Diesel Range Organics (C10-C28)	325	25.0	250		130	38-132			
Surrogate: n-Nonane	54.1		50.0		108	50-200			

Matrix Spike (2426032-MS1) Source: E406241-02 Prepared: 06/26/24 Analyzed: 06/26/24

Diesel Range Organics (C10-C28)	324	25.0	250	ND	129	38-132			
Surrogate: n-Nonane	53.2		50.0		106	50-200			

Matrix Spike Dup (2426032-MSD1) Source: E406241-02 Prepared: 06/26/24 Analyzed: 06/26/24

Diesel Range Organics (C10-C28)	325	25.0	250	ND	130	38-132	0.381	20	
Surrogate: n-Nonane	53.9		50.0		108	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/27/2024 4:01:36PM

Anions by EPA 300.0/9056A

Analyst: DT

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 (2426031-BLK1)					Prepared: 06/26/24 Analyzed: 06/26/24				
Chloride	ND	20.0							
LCS (2426031-BS1)					Prepared: 06/26/24 Analyzed: 06/26/24				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2426031-MS1)					Source: E406241-01		Prepared: 06/26/24 Analyzed: 06/26/24		
Chloride	324	100	250	ND	130	80-120			M6
Matrix Spike Dup (2426031-MSD1)					Source: E406241-01		Prepared: 06/26/24 Analyzed: 06/26/24		
Chloride	320	100	250	ND	128	80-120	1.10	20	M6

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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/27/24 16:01

- M6 Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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 16 #008				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA															
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E406234		01058-0007					5 day TAT																	
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220		Analysis and Method		Depth (ft.)		TPH GRO/DRO/ORO by 8015		BTEX by 8021		VOC by 8260		Metals 6010		Chloride 300.0		BGDOC NM		GDOD TX		RCRA						
City, State, Zip: Odessa, TX, 79765				State																										
Phone: 432-305-6415				NM																				CO	UT	AZ	TX			
Email: Devon-team@etechnv.com				WO: 21141253																				Remarks						
Email: jim.raley@dmv.com				Incident ID: nAPP2307930900																										
Collected by: Edyte Konan																														
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	GDOD TX	Remarks																
10:40	06.21.24	S	1	BH08	1	0.5'						X																		
10:50	06.21.24	S	1	BH08	2	4'						X																		
11:00	06.21.24	S	1	BH08	3	8'						X																		
06/25/2024																														
Additional Instructions:																														
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: EK																														
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only																						
[Signature]		06/25/24	06:00	[Signature]		06/25/24	11:00	Received on ice: Y / N																						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1								T2	T3													
[Signature]		06/25/24	1530	[Signature]		06/25/24	1700																							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C																						
[Signature]		06/25/24	2315	[Signature]		06/26/24	0600	4																						
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																														
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																														
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																														



Envirotech Analytical Laboratory

Printed: 6/27/2024 11:55:09AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	06/26/24 06:00	Work Order ID:	E406234
Phone:	(575) 200-6754	Date Logged In:	06/25/24 16:37	Logged In By:	Raina Schwanz
Email:	anna@etechnv.vom	Due Date:	07/02/24 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: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? 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

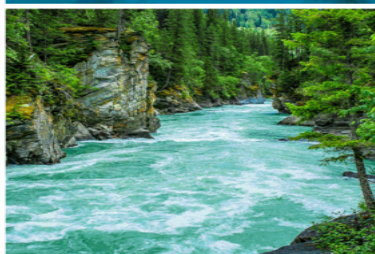
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E406235

Job Number: 01058-0007

Received: 6/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/27/24

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: 6/27/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16 #008
Workorder: E406235
Date Received: 6/26/2024 6:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/26/2024 6:00:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/27/24 16:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH09 0.5'	E406235-01A	Soil	06/21/24	06/26/24	Glass Jar, 2 oz.
BH09 4'	E406235-02A	Soil	06/21/24	06/26/24	Glass Jar, 2 oz.
BH09 8'	E406235-03A	Soil	06/21/24	06/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/27/2024 4:02:52PM
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BH09 0.5'

E406235-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2426035	
Benzene	ND	0.0250	1	06/26/24	06/27/24	
Ethylbenzene	ND	0.0250	1	06/26/24	06/27/24	
Toluene	ND	0.0250	1	06/26/24	06/27/24	
o-Xylene	ND	0.0250	1	06/26/24	06/27/24	
p,m-Xylene	ND	0.0500	1	06/26/24	06/27/24	
Total Xylenes	ND	0.0250	1	06/26/24	06/27/24	
Surrogate: 4-Bromochlorobenzene-PID	92.9 %	70-130		06/26/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2426035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/24	06/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.9 %	70-130		06/26/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2426032	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/24	06/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/24	06/27/24	
Surrogate: n-Nonane	98.9 %	50-200		06/26/24	06/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2426031	
Chloride	12300	200	10	06/26/24	06/26/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/27/2024 4:02:52PM

BH09 4'

E406235-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2426035
Benzene	ND	0.0250	1	06/26/24	06/27/24	
Ethylbenzene	ND	0.0250	1	06/26/24	06/27/24	
Toluene	ND	0.0250	1	06/26/24	06/27/24	
o-Xylene	ND	0.0250	1	06/26/24	06/27/24	
p,m-Xylene	ND	0.0500	1	06/26/24	06/27/24	
Total Xylenes	ND	0.0250	1	06/26/24	06/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		06/26/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2426035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/24	06/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.9 %	70-130		06/26/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2426032
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/24	06/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/24	06/27/24	
<i>Surrogate: n-Nonane</i>						
	98.1 %	50-200		06/26/24	06/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2426031
Chloride	6980	100	5	06/26/24	06/26/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/27/2024 4:02:52PM

BH09 8'

E406235-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2426035	
Benzene	ND	0.0250	1	06/26/24	06/27/24	
Ethylbenzene	ND	0.0250	1	06/26/24	06/27/24	
Toluene	ND	0.0250	1	06/26/24	06/27/24	
o-Xylene	ND	0.0250	1	06/26/24	06/27/24	
p,m-Xylene	ND	0.0500	1	06/26/24	06/27/24	
Total Xylenes	ND	0.0250	1	06/26/24	06/27/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		06/26/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2426035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/24	06/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.9 %	70-130		06/26/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2426032	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/24	06/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/24	06/27/24	
Surrogate: n-Nonane	95.7 %	50-200		06/26/24	06/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2426031	
Chloride	4290	40.0	2	06/26/24	06/26/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/27/2024 4:02:52PM

Volatile Organics by EPA 8021B

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 (2426035-BLK1) Prepared: 06/26/24 Analyzed: 06/26/24

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	7.27		8.00		90.9	70-130			

LCS (2426035-BS1) Prepared: 06/26/24 Analyzed: 06/26/24

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	4.90	0.0250	5.00		98.1	70-130			
Toluene	5.01	0.0250	5.00		100	70-130			
o-Xylene	4.89	0.0250	5.00		97.8	70-130			
p,m-Xylene	9.96	0.0500	10.0		99.6	70-130			
Total Xylenes	14.8	0.0250	15.0		99.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.6	70-130			

Matrix Spike (2426035-MS1) Source: E406231-05 Prepared: 06/26/24 Analyzed: 06/26/24

Benzene	10.1	0.0500	10.0	ND	101	54-133			
Ethylbenzene	9.74	0.0500	10.0	ND	97.4	61-133			
Toluene	9.95	0.0500	10.0	ND	99.5	61-130			
o-Xylene	9.69	0.0500	10.0	ND	96.9	63-131			
p,m-Xylene	19.7	0.100	20.0	ND	98.7	63-131			
Total Xylenes	29.4	0.0500	30.0	ND	98.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	14.7		16.0		92.2	70-130			

Matrix Spike Dup (2426035-MSD1) Source: E406231-05 Prepared: 06/26/24 Analyzed: 06/26/24

Benzene	10.1	0.0500	10.0	ND	101	54-133	0.390	20	
Ethylbenzene	9.69	0.0500	10.0	ND	96.9	61-133	0.509	20	
Toluene	9.90	0.0500	10.0	ND	99.0	61-130	0.568	20	
o-Xylene	9.66	0.0500	10.0	ND	96.6	63-131	0.253	20	
p,m-Xylene	19.6	0.100	20.0	ND	98.1	63-131	0.628	20	
Total Xylenes	29.3	0.0500	30.0	ND	97.6	63-131	0.504	20	
Surrogate: 4-Bromochlorobenzene-PID	14.8		16.0		92.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/27/2024 4:02:52PM

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 (2426035-BLK1) Prepared: 06/26/24 Analyzed: 06/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

LCS (2426035-BS2) Prepared: 06/26/24 Analyzed: 06/26/24

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			

Matrix Spike (2426035-MS2) Source: E406231-05 Prepared: 06/26/24 Analyzed: 06/26/24

Gasoline Range Organics (C6-C10)	98.6	40.0	100	ND	98.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.5		16.0		96.7	70-130			

Matrix Spike Dup (2426035-MSD2) Source: E406231-05 Prepared: 06/26/24 Analyzed: 06/26/24

Gasoline Range Organics (C6-C10)	95.4	40.0	100	ND	95.4	70-130	3.27	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.5		16.0		97.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/27/2024 4:02:52PM

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 (2426032-BLK1)					Prepared: 06/26/24 Analyzed: 06/26/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS (2426032-BS1)					Prepared: 06/26/24 Analyzed: 06/26/24				
Diesel Range Organics (C10-C28)	325	25.0	250		130	38-132			
Surrogate: n-Nonane	54.1		50.0		108	50-200			

Matrix Spike (2426032-MS1)					Source: E406241-02		Prepared: 06/26/24 Analyzed: 06/26/24		
Diesel Range Organics (C10-C28)	324	25.0	250	ND	129	38-132			
Surrogate: n-Nonane	53.2		50.0		106	50-200			

Matrix Spike Dup (2426032-MSD1)					Source: E406241-02		Prepared: 06/26/24 Analyzed: 06/26/24		
Diesel Range Organics (C10-C28)	325	25.0	250	ND	130	38-132	0.381	20	
Surrogate: n-Nonane	53.9		50.0		108	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/27/2024 4:02:52PM

Anions by EPA 300.0/9056A

Analyst: DT

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 (2426031-BLK1)					Prepared: 06/26/24 Analyzed: 06/26/24				
Chloride	ND	20.0							
LCS (2426031-BS1)					Prepared: 06/26/24 Analyzed: 06/26/24				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2426031-MS1)					Source: E406241-01		Prepared: 06/26/24 Analyzed: 06/26/24		
Chloride	324	100	250	ND	130	80-120			M6
Matrix Spike Dup (2426031-MSD1)					Source: E406241-01		Prepared: 06/26/24 Analyzed: 06/26/24		
Chloride	320	100	250	ND	128	80-120	1.10	20	M6

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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/27/24 16:02

- M6 Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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 16 #008						Attention: Jim Raley								Lab WO# E406235			Job Number 01058-0007				1D	2D	3D	Standard		CWA	SDWA					
Project Manager: Anna Byers						Address: 5315 Buena Vista Dr.																		5 day TAT								
Address: 13000 W County Rd 100						City, State, Zip: Carlsbad, NM, 88220								Analysis and Method																RCRA		
City, State, Zip_Odessa,TX, 79765						Phone: 575-885-7502								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: 432-305-6415						Email: jim.raley@dv.com																			NM	CO	UT	AZ	TX			
Email: Devon-team@etechnv.com						WO: 21141253																			x							
Incident ID: nAPP2307930900																											Remarks					
Collected by: Edyte Konan																																
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number																								
11:20	06.21.24	S	1	BH09				1	0.5'									X														
11:30	06.21.24	S	1	BH09				2	4'									X														
11:40	06.21.24	S	1	BH09				3	8'									X														
06/25/2024 DG																																
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,															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.																	
date or time of collection is considered fraud and may be grounds for legal action.															Sampled by: EK																	
Relinquished by: (Signature)			Date		Time		Received by: (Signature)			Date		Time		Lab Use Only																		
[Signature]			06/25/24		06:00		[Signature]			Date		Time		Received on ice: Y / N																		
[Signature]			6-25-24		1530		L.M.			6-25-24		1700		T1 _____ T2 _____ T3 _____																		
[Signature]			6-25-24		2315		Kuyah R Hall			6-26-24		0600		AVG Temp °C 4																		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other															Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																

Envirotech Analytical Laboratory

Printed: 6/27/2024 12:05:06PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	06/26/24 06:00	Work Order ID:	E406235
Phone:	(575) 200-6754	Date Logged In:	06/25/24 16:40	Logged In By:	Raina Schwanz
Email:	anna@etechnv.vom	Due Date:	07/02/24 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: Couier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? 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.

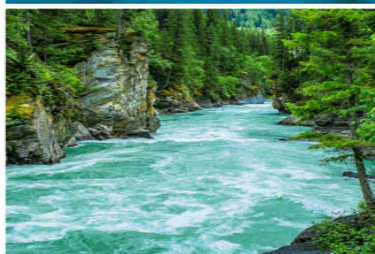
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E403245

Job Number: 01058-0007

Received: 3/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/1/24

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: 4/1/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E403245
Date Received: 3/26/2024 10:24:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/26/2024 10:24:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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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Cell: 775-287-1762
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/01/24 14:57

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 0.25'	E403245-01A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.
FS02 0.25'	E403245-02A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.
FS03 0.25'	E403245-03A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.
FS04 0.25'	E403245-04A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.
FS05 0.25'	E403245-05A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.
FS06 0.25'	E403245-06A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.
FS07 0.25'	E403245-07A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.
FS08 0.25'	E403245-08A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.
FS09 0.25'	E403245-09A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.
FS10 0.25'	E403245-10A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.
FS11 0.25'	E403245-11A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.
FS12 0.25'	E403245-12A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.
FS13 0.25'	E403245-13A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.
FS14 0.25'	E403245-14A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/1/2024 2:57:12PM
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FS01 0.25'
E403245-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	90.5 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.0 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413096	
Diesel Range Organics (C10-C28)	843	125	5	03/28/24	03/30/24	
Oil Range Organics (C28-C36)	885	250	5	03/28/24	03/30/24	
Surrogate: n-Nonane	70.0 %	50-200		03/28/24	03/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2413074	
Chloride	4470	40.0	2	03/27/24	03/27/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/1/2024 2:57:12PM

FS02 0.25'
E403245-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	91.4 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.9 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413096	
Diesel Range Organics (C10-C28)	1260	125	5	03/28/24	03/30/24	
Oil Range Organics (C28-C36)	1130	250	5	03/28/24	03/30/24	
Surrogate: n-Nonane	72.9 %	50-200		03/28/24	03/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2413074	
Chloride	3110	40.0	2	03/27/24	03/27/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/1/2024 2:57:12PM

FS03 0.25'
E403245-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	91.8 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.1 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413096	
Diesel Range Organics (C10-C28)	849	250	10	03/28/24	03/30/24	
Oil Range Organics (C28-C36)	991	500	10	03/28/24	03/30/24	
Surrogate: n-Nonane	73.0 %	50-200		03/28/24	03/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2413074	
Chloride	3110	40.0	2	03/27/24	03/27/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/1/2024 2:57:12PM
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FS04 0.25'
E403245-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	91.6 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.2 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413096	
Diesel Range Organics (C10-C28)	1910	250	10	03/28/24	03/30/24	
Oil Range Organics (C28-C36)	1890	500	10	03/28/24	03/30/24	
Surrogate: n-Nonane	68.9 %	50-200		03/28/24	03/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2413074	
Chloride	6610	100	5	03/27/24	03/27/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported: 4/1/2024 2:57:12PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

FS05 0.25'
E403245-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	0.0625	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	0.179	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	0.145	0.0500	1	03/26/24	03/28/24	
Total Xylenes	0.325	0.0250	1	03/26/24	03/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2413096	
Diesel Range Organics (C10-C28)	8800	500	20	03/28/24	03/30/24	
Oil Range Organics (C28-C36)	4560	1000	20	03/28/24	03/30/24	
<i>Surrogate: n-Nonane</i>						
	77.9 %	50-200		03/28/24	03/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2413074	
Chloride	2330	20.0	1	03/27/24	03/27/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported: 4/1/2024 2:57:12PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

FS06 0.25'
E403245-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.6 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.0 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2413096	
Diesel Range Organics (C10-C28)	2190	250	10	03/28/24	03/30/24	
Oil Range Organics (C28-C36)	2370	500	10	03/28/24	03/30/24	
<i>Surrogate: n-Nonane</i>						
	75.7 %	50-200		03/28/24	03/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2413074	
Chloride	1690	20.0	1	03/27/24	03/27/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/1/2024 2:57:12PM
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FS07 0.25'
E403245-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	91.2 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.3 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413096	
Diesel Range Organics (C10-C28)	2570	250	10	03/28/24	03/30/24	
Oil Range Organics (C28-C36)	2480	500	10	03/28/24	03/30/24	
Surrogate: n-Nonane	72.6 %	50-200		03/28/24	03/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2413074	
Chloride	5120	40.0	2	03/27/24	03/27/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/1/2024 2:57:12PM
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FS08 0.25'
E403245-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	96.3 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.1 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413096	
Diesel Range Organics (C10-C28)	11900	500	20	03/28/24	03/30/24	
Oil Range Organics (C28-C36)	5340	1000	20	03/28/24	03/30/24	
Surrogate: n-Nonane	77.6 %	50-200		03/28/24	03/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2413074	
Chloride	1860	20.0	1	03/27/24	03/27/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/1/2024 2:57:12PM
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FS09 0.25'
E403245-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.7 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.3 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2413096	
Diesel Range Organics (C10-C28)	1590	250	10	03/28/24	03/30/24	
Oil Range Organics (C28-C36)	1400	500	10	03/28/24	03/30/24	
<i>Surrogate: n-Nonane</i>						
	71.1 %	50-200		03/28/24	03/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2413074	
Chloride	3310	40.0	2	03/27/24	03/27/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/1/2024 2:57:12PM

FS10 0.25'
E403245-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	91.2 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413096	
Diesel Range Organics (C10-C28)	5390	500	20	03/28/24	03/30/24	
Oil Range Organics (C28-C36)	4520	1000	20	03/28/24	03/30/24	
Surrogate: n-Nonane	72.8 %	50-200		03/28/24	03/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2413074	
Chloride	2390	40.0	2	03/27/24	03/27/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/1/2024 2:57:12PM
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FS11 0.25'
E403245-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	90.9 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.0 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413096	
Diesel Range Organics (C10-C28)	742	125	5	03/28/24	03/30/24	
Oil Range Organics (C28-C36)	826	250	5	03/28/24	03/30/24	
Surrogate: n-Nonane	72.0 %	50-200		03/28/24	03/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2413074	
Chloride	4990	40.0	2	03/27/24	03/27/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/1/2024 2:57:12PM
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FS12 0.25'
E403245-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	92.8 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.3 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413096	
Diesel Range Organics (C10-C28)	4610	500	20	03/28/24	03/30/24	
Oil Range Organics (C28-C36)	4030	1000	20	03/28/24	03/30/24	
Surrogate: n-Nonane	78.5 %	50-200		03/28/24	03/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2413074	
Chloride	2550	40.0	2	03/27/24	03/27/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/1/2024 2:57:12PM
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FS13 0.25'
E403245-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	93.8 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.1 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413096	
Diesel Range Organics (C10-C28)	3750	500	20	03/28/24	03/30/24	
Oil Range Organics (C28-C36)	3250	1000	20	03/28/24	03/30/24	
Surrogate: n-Nonane	78.8 %	50-200		03/28/24	03/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2413074	
Chloride	1530	20.0	1	03/27/24	03/27/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/1/2024 2:57:12PM

FS14 0.25'
E403245-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	92.7 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.6 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413096	
Diesel Range Organics (C10-C28)	1470	250	10	03/28/24	03/30/24	
Oil Range Organics (C28-C36)	1640	500	10	03/28/24	03/30/24	
Surrogate: n-Nonane	77.6 %	50-200		03/28/24	03/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2413074	
Chloride	695	20.0	1	03/27/24	03/27/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/1/2024 2:57:12PM

Volatile Organics by EPA 8021B

Analyst: EG

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

Blank (2413054-BLK1) Prepared: 03/26/24 Analyzed: 03/28/24

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	7.68		8.00		96.0	70-130			

LCS (2413054-BS1) Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	4.95	0.0250	5.00		99.1	70-130			
Ethylbenzene	4.93	0.0250	5.00		98.7	70-130			
Toluene	4.93	0.0250	5.00		98.6	70-130			
o-Xylene	4.89	0.0250	5.00		97.8	70-130			
p,m-Xylene	9.95	0.0500	10.0		99.5	70-130			
Total Xylenes	14.8	0.0250	15.0		98.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			

Matrix Spike (2413054-MS1) Source: E403245-03 Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	4.95	0.0250	5.00	ND	99.0	54-133			
Ethylbenzene	4.89	0.0250	5.00	ND	97.8	61-133			
Toluene	4.91	0.0250	5.00	ND	98.2	61-130			
o-Xylene	4.84	0.0250	5.00	ND	96.7	63-131			
p,m-Xylene	9.86	0.0500	10.0	ND	98.6	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2413054-MSD1) Source: E403245-03 Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	4.79	0.0250	5.00	ND	95.9	54-133	3.17	20	
Ethylbenzene	4.77	0.0250	5.00	ND	95.3	61-133	2.61	20	
Toluene	4.77	0.0250	5.00	ND	95.3	61-130	3.01	20	
o-Xylene	4.69	0.0250	5.00	ND	93.8	63-131	3.09	20	
p,m-Xylene	9.58	0.0500	10.0	ND	95.8	63-131	2.87	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.1	63-131	2.94	20	
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/1/2024 2:57:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

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

Blank (2413054-BLK1) Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

LCS (2413054-BS2) Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	51.8	20.0	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

Matrix Spike (2413054-MS2) Source: E403245-03 Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.4	70-130			

Matrix Spike Dup (2413054-MSD2) Source: E403245-03 Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.4	70-130	2.26	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/1/2024 2:57:12PM

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 (2413096-BLK1)					Prepared: 03/28/24 Analyzed: 03/30/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	37.2		50.0		74.4	50-200			

LCS (2413096-BS1)					Prepared: 03/28/24 Analyzed: 03/30/24				
Diesel Range Organics (C10-C28)	239	25.0	250		95.6	38-132			
Surrogate: n-Nonane	35.1		50.0		70.2	50-200			

Matrix Spike (2413096-MS1)					Source: E403245-02		Prepared: 03/28/24 Analyzed: 03/30/24		
Diesel Range Organics (C10-C28)	1420	125	250	1260	63.4	38-132			
Surrogate: n-Nonane	31.1		50.0		62.2	50-200			

Matrix Spike Dup (2413096-MSD1)					Source: E403245-02		Prepared: 03/28/24 Analyzed: 03/30/24		
Diesel Range Organics (C10-C28)	1590	125	250	1260	132	38-132	11.5	20	
Surrogate: n-Nonane	33.7		50.0		67.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/1/2024 2:57:12PM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2413074-BLK1)					Prepared: 03/27/24 Analyzed: 03/27/24				
Chloride	ND	20.0							
LCS (2413074-BS1)					Prepared: 03/27/24 Analyzed: 03/27/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2413074-MS1)					Source: E403245-05		Prepared: 03/27/24 Analyzed: 03/27/24		
Chloride	2410	20.0	250	2330	31.5	80-120			M4
Matrix Spike Dup (2413074-MSD1)					Source: E403245-05		Prepared: 03/27/24 Analyzed: 03/27/24		
Chloride	2240	20.0	250	2330	NR	80-120	7.22	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/01/24 14:57

- 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
- DNR Did not react with the addition of acid or base.

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 16 #008				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E 403245		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				WBS/WO: 21141253												
Collected by: Gilbert Moreno				Incident ID: nAPP2307930900												
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	TDS	Cation/Anion	BGDOC NM	GDOC TX	Remarks
10:10	3.22.24	S	1	FS01	1	0.25'								X		
10:20	3.22.24	S	1	FS02	2	0.25'								X		
10:30	3.22.24	S	1	FS03	3	0.25'								X		
10:40	3.22.24	S	1	FS04	4	0.25'								X		
10:50	3.22.24	S	1	FS05	5	0.25'								X		
11:00	3.22.24	S	1	FS06	6	0.25'								X		
11:10	3.22.24	S	1	FS07	7	0.25'								X		
11:20	3.22.24	S	1	FS08	8	0.25'								X		
11:30	3.22.24	S	1	FS09	9	0.25'								X		
11:40	3.22.24	S	1	FS10	10	0.25'								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: GM									
Relinquished by: (Signature) <i>[Signature]</i>					Received by: (Signature) <i>[Signature]</i>				
Date: 3.25.24 Time: 10:00					Date: 3-25-24 Time: 1020				
Relinquished by: (Signature) <i>[Signature]</i>					Received by: (Signature) <i>[Signature]</i>				
Date: 3-25-24 Time: 1420					Date: 3-25-24 Time: 1630				
Relinquished by: (Signature) <i>[Signature]</i>					Received by: (Signature) <i>[Signature]</i>				
Date: 3-25-24 Time: 2015					Date: 3/26/24 Time: 1024				
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.									

Lab Use Only		
Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N	T1	T2
	T3	
AVG Temp °C	4	



envirotech

Client: WPX Energy Permian, LLC				<div>Bill To</div> <div>Attention: Jim Raley</div> <div>Address: 5315 Buena Vista Dr.</div> <div>City, State, Zip: Carlsbad, NM, 88220</div> <div>Phone: 575-885-7502</div> <div>Email: jim.raley@dmn.com</div> <div>WBS/WO: 21141253</div> <div>Incident ID: nAPP2307930900</div>				Lab Use Only				TAT				EPA Program						
Project: RDX 16 #008								Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno								E 403245		61058-007					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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State				
Phone: 832-541-7719																		NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com																		x				
Collected by: Gilbert Moreno																		Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
11:50	3.22.24	S	1	FS11	11	0.25'							X									
12:00	3.22.24	S	1	FS12	12	0.25'							X									
12:10	3.22.24	S	1	FS13	13	0.25'							X									
12:20	3.22.24	S	1	FS14	14	0.25'							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 3.25.24 Time 10:00												Received by: (Signature) <i>[Signature]</i> Date 3-25-24 Time 1020										
Relinquished by: (Signature) <i>[Signature]</i> Date 3-25-24 Time 1420												Received by: (Signature) <i>[Signature]</i> Date 3-25-24 Time 1630										
Relinquished by: (Signature) <i>[Signature]</i> Date 3-25-24 Time 1515												Received by: (Signature) <i>[Signature]</i> Date 3/26/24 Time 1024										
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: 3/26/2024 3:58:53PM

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:	03/26/24 10:24	Work Order ID:	E403245
Phone:	(539) 573-4018	Date Logged In:	03/26/24 10:23	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	04/01/24 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.

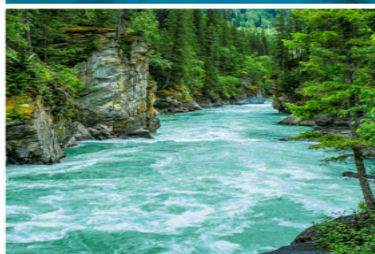
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E405374

Job Number: 01058-0007

Received: 5/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/10/24

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.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 6/10/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E405374
Date Received: 5/29/2024 8:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/29/2024 8:00:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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 Lopez
Laboratory Administrator
Office: 505-632-1881
rlopez@envirotech-inc.com

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

Field Offices:

Southern New Mexico Area
Lynn Jarboe

West Texas Midland/Odessa Area
Tom Brown

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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 06/10/24 16:24
--	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 0.5'	E405374-01A	Soil	05/24/24	05/29/24	Glass Jar, 2 oz.
FS02 0.5'	E405374-02A	Soil	05/24/24	05/29/24	Glass Jar, 2 oz.
FS03 0.5'	E405374-03A	Soil	05/24/24	05/29/24	Glass Jar, 2 oz.
FS04 0.5'	E405374-04A	Soil	05/24/24	05/29/24	Glass Jar, 2 oz.
FS05 0.5'	E405374-05A	Soil	05/24/24	05/29/24	Glass Jar, 2 oz.
FS06 0.5'	E405374-06A	Soil	05/24/24	05/29/24	Glass Jar, 2 oz.
FS07 0.5'	E405374-07A	Soil	05/24/24	05/29/24	Glass Jar, 2 oz.
FS08 0.5'	E405374-08A	Soil	05/24/24	05/29/24	Glass Jar, 2 oz.
FS09 0.5'	E405374-09A	Soil	05/24/24	05/29/24	Glass Jar, 2 oz.
FS10 0.5'	E405374-10A	Soil	05/24/24	05/29/24	Glass Jar, 2 oz.
FS11 0.5'	E405374-11A	Soil	05/24/24	05/29/24	Glass Jar, 2 oz.
FS12 0.5'	E405374-12A	Soil	05/24/24	05/29/24	Glass Jar, 2 oz.
FS13 0.5'	E405374-13A	Soil	05/24/24	05/29/24	Glass Jar, 2 oz.
FS14 0.5'	E405374-14A	Soil	05/24/24	05/29/24	Glass Jar, 2 oz.



Released to: Imaging: 9/3/2024 9:16:13 AM

Project Information

Chain of Custody

Client: WPX Energy Permian, LLC.	Bill To	Lab Use Only	TAT			EPA Program								
Project: RDX 16 #008	Attention: Jim Raley	Lab WO#	1D	2D	3D	Standard	CWA	SDWA						
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.	Job Number				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	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	State				
Phone: 832-541-7719	Email: jim.raley@dvn.com									NM	CO	UT	AZ	TX
mail: Devon-team@etechnv.com	WO: 21141253													
	Incident ID: nAPP2307930900													
Collected by: Edyte Konan														

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	Remarks
10:00	05.24.24	S	1	FS01	1	0.5'						X		
10:10	05.24.24	S	1	FS02	2	0.5'						X		
10:20	05.24.24	S	1	FS03	3	0.5'						X		
10:30	05.24.24	S	1	FS04	4	0.5'						X		
10:40	05.24.24	S	1	FS05	5	0.5'						X		
10:50	05.24.24	S	1	FS06	6	0.5'						X		
11:00	05.24.24	S	1	FS07	7	0.5'						X		
11:10	05.24.24	S	1	FS08	8	0.5'						X		
11:20	05.24.24	S	1	FS09	9	0.5'						X		
11:30	05.24.24	S	1	FS10	10	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: EK

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Michelle Gonzales	05/28/24	11:40	Michelle Gonzales	5-28-24	1140	
Michelle Gonzales	5-28-24	1600	A.M.	5-28-24	1730	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
A.M.	5-28-24	2400	A.M.	5/29/24	0800	

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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Received by: OCD: 8/6/2024 5:09:55 PM

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Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only				TAT				EPA Program	
Project: RDX 16 #008					Attention: Jim Raley		Lab WO# E405374		Job Number 01058-0007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E405374		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.)							State		
Phone: 832-541-7719					Email: jim.raley@dvn.com		TPH GRO/DRG/ORO by 8015							NM CO UT AZ TX		
mail: Devon-team@etechnv.com					WO: 21141253		BTX by 8021							x		
Collected by: Edyte Konan					Incident ID: nAPP2307930900		VOC by 8260							Remarks		
							Metals 6010									
							Chloride 300.0									
							BGDOC NM									
							GDOC TX									
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRG/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks		
11:40	05.24.24	S	1	FS11	11	0.5'						X				
11:50	05.24.24	S	1	FS12	12	0.5'						X				
12:00	05.24.24	S	1	FS13	13	0.5'						X				
12:10	05.24.24	S	1	FS14	14	0.5'						X				
05/28/24																
Additional Instructions:																
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: EK																
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only								
Michelle Gonzales		05/28/24	11:40	Michelle Gonzales		5-28-24	1140	Received on ice: <input checked="" type="checkbox"/> N								
Michelle Gonzales		5-28-24	1600	C.L.M.		5-28-24	1730	T1 T2 T3								
C.L.M.		5-28-24	2400	C.L.M.		5/29/24	0800	AVG Temp °C 4								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA						
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																



Envirotech Analytical Laboratory

Printed: 5/29/2024 10:56:56AM

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:	05/29/24 08:00	Work Order ID:	E405374
Phone:	(539) 573-4018	Date Logged In:	05/29/24 08:56	Logged In By:	Angelina Pineda
Email:	devon-team@etechenv.com	Due Date:	06/07/24 17:00 (7 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

Spoke with Client and informed them that Samples were to be shipped off to Alamo in San Antonio.

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? Yes
29. Was a subcontract laboratory specified by the client and if so who? No Subcontract Lab: ALAMO/SAN ANTONIO

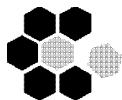
Client Instruction

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

Date



envirotech Inc.



ALAMO ANALYTICAL LABORATORIES, LTD.

Main: 10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121 . Fax. (210) 340-8123

REPORT NARRATIVE

6/10/2024

Raina Schwanz

Envirotech, Inc

5796 US Hwy 64

Farmington , NM - 87401

TEL: (505) 632-1881

FAX:

Email: RainaSchwanz@envirotech-
inc.com;LabAdmin@EnviroTech-inc.com

RE: WPX (Devon) / RDX 16 # 008

Dear Raina Schwanz:

Order No.: 2405115

Enclosed please find the analytical report for the sample/s received on 5/31/2024.

SAMPLE RECEIPT: Samples were received intact and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Sample Acceptance Policy unless otherwise noted in the report.

COMMENTS: No significant observations were made.

If you have any questions regarding these test results call (210) 340-8121.

Thank you,

Reddy Gosala, Ph.D

Laboratory Director

Report of Laboratory Analysis

Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

NELAP Certificate # San Antonio, TX 164704367-22-19



ALAMO ANALYTICAL LABORATORIES, LTD.

Date: 10-Jun-24

Analytical Results Report

CLIENT: Envirotech, Inc

Lab Order 2405115

Project: WPX (Devon) / RDX 16 # 008

Collection Date: 5/24/2024 10:00:00 AM

Matrix: SOIL

Lab ID: 2405115-01A

Client Sample ID: FS01

Analyses	Test Code	Result	MDL	PQL	Units	DF	Date Analyzed	Qual
TestName: BTEX					Analyst: SUB			
Benzene	BTXS_GCM	< 0.005	0.0011	0.005	mg/Kg	1	6/5/2024	
Toluene	BTXS_GCM	< 0.005	0.001	0.005	mg/Kg	1	6/5/2024	
Ethylbenzene	BTXS_GCM	< 0.005	0.0013	0.005	mg/Kg	1	6/5/2024	
Xylenes, Total	BTXS_GCM	< 0.015	0.0015	0.015	mg/Kg	1	6/5/2024	
TestName: CHLORIDE BY ION CHROMATOGR					Analyst: YK			
Chloride	CL_R_S	8460	177	400	mg/Kg	100	6/6/2024	
TestName: TPH Method 8015 Extn to C36					Analyst: SLF			
GRO(C6-C10)	TPH8015	< 10	2.8	10	mg/Kg	1	6/5/2024	
DRO(>C10-C28)	TPH8015	< 25	9.6	25	mg/Kg	1	6/5/2024	
ORO(>C28-C36)	TPH8015	< 25	9.6	25	mg/Kg	1	6/5/2024	
Total TPH (C6-C36)	TPH8015	< 50	20	50	mg/Kg	1	6/5/2024	

BTXS_GCMS	1,2-Dichloroethane-d4	92%	51—145
BTXS_GCMS	Toluene-d8	91%	54—173
TPH8015	o-Terphenyl	75%	47—142

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits

* Non-NELAP Standards ** Sub Contracted *** Not in Compliance

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

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ALAMO ANALYTICAL LABORATORIES, LTD.

Date: 10-Jun-24

Analytical Results Report

CLIENT: Envirotech, Inc

Lab Order 2405115

Project: WPX (Devon) / RDX 16 # 008

Collection Date: 5/24/2024 10:10:00 AM

Matrix: SOIL

Lab ID: 2405115-02A

Client Sample ID: FS02

Analyses	Test Code	Result	MDL	PQL	Units	DF	Date Analyzed	Qual
TestName: BTEX					Analyst: SUB			
Benzene	BTXS_GCM	< 0.005	0.0011	0.005	mg/Kg	1	6/5/2024	
Toluene	BTXS_GCM	< 0.005	0.001	0.005	mg/Kg	1	6/5/2024	
Ethylbenzene	BTXS_GCM	< 0.005	0.0013	0.005	mg/Kg	1	6/5/2024	
Xylenes, Total	BTXS_GCM	< 0.015	0.0015	0.015	mg/Kg	1	6/5/2024	
TestName: CHLORIDE BY ION CHROMATOGR					Analyst: YK			
Chloride	CL_R_S	7520	177	400	mg/Kg	100	6/6/2024	
TestName: TPH Method 8015 Extn to C36					Analyst: SLF			
GRO(C6-C10)	TPH8015	< 10	2.8	10	mg/Kg	1	6/5/2024	
DRO(>C10-C28)	TPH8015	< 25	9.6	25	mg/Kg	1	6/5/2024	
ORO(>C28-C36)	TPH8015	< 25	9.6	25	mg/Kg	1	6/5/2024	
Total TPH (C6-C36)	TPH8015	< 50	20	50	mg/Kg	1	6/5/2024	

BTXS_GCMS	1,2-Dichloroethane-d4	97%	51—145
BTXS_GCMS	Toluene-d8	98%	54—173
TPH8015	o-Terphenyl	87%	47—142

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits

* Non-NELAP Standards ** Sub Contracted *** Not in Compliance

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

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ALAMO ANALYTICAL LABORATORIES, LTD.

Date: 10-Jun-24

Analytical Results Report

CLIENT: Envirotech, Inc

Lab Order 2405115

Project: WPX (Devon) / RDX 16 # 008

Collection Date: 5/24/2024 10:20:00 AM

Matrix: SOIL

Lab ID: 2405115-03A

Client Sample ID: FS03

Analyses	Test Code	Result	MDL	PQL	Units	DF	Date Analyzed	Qual
TestName: BTEX					Analyst: SUB			
Benzene	BTXS_GCM	< 0.005	0.0011	0.005	mg/Kg	1	6/5/2024	
Toluene	BTXS_GCM	< 0.005	0.001	0.005	mg/Kg	1	6/5/2024	
Ethylbenzene	BTXS_GCM	< 0.005	0.0013	0.005	mg/Kg	1	6/5/2024	
Xylenes, Total	BTXS_GCM	< 0.015	0.0015	0.015	mg/Kg	1	6/5/2024	
TestName: CHLORIDE BY ION CHROMATOGR					Analyst: YK			
Chloride	CL_R_S	13000	177	400	mg/Kg	100	6/6/2024	
TestName: TPH Method 8015 Extn to C36					Analyst: SLF			
GRO(C6-C10)	TPH8015	< 10	2.8	10	mg/Kg	1	6/5/2024	
DRO(>C10-C28)	TPH8015	< 25	9.6	25	mg/Kg	1	6/5/2024	
ORO(>C28-C36)	TPH8015	< 25	9.6	25	mg/Kg	1	6/5/2024	
Total TPH (C6-C36)	TPH8015	< 50	20	50	mg/Kg	1	6/5/2024	

BTXS_GCMS	1,2-Dichloroethane-d4	99%	51—145
BTXS_GCMS	Toluene-d8	92%	54—173
TPH8015	o-Terphenyl	75%	47—142

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits

* Non-NELAP Standards ** Sub Contracted *** Not in Compliance

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

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ALAMO ANALYTICAL LABORATORIES, LTD.

Date: 10-Jun-24

Analytical Results Report

CLIENT: Envirotech, Inc

Lab Order 2405115

Project: WPX (Devon) / RDX 16 # 008

Collection Date: 5/24/2024 10:30:00 AM

Matrix: SOIL

Lab ID: 2405115-04A

Client Sample ID: FS04

Analyses	Test Code	Result	MDL	PQL	Units	DF	Date Analyzed	Qual
TestName: BTEX					Analyst: SUB			
Benzene	BTXS_GCM	< 0.005	0.0011	0.005	mg/Kg	1	6/5/2024	
Toluene	BTXS_GCM	< 0.005	0.001	0.005	mg/Kg	1	6/5/2024	
Ethylbenzene	BTXS_GCM	< 0.005	0.0013	0.005	mg/Kg	1	6/5/2024	
Xylenes, Total	BTXS_GCM	< 0.015	0.0015	0.015	mg/Kg	1	6/5/2024	
TestName: CHLORIDE BY ION CHROMATOGR					Analyst: YK			
Chloride	CL_R_S	18000	177	400	mg/Kg	100	6/6/2024	
TestName: TPH Method 8015 Extn to C36					Analyst: SLF			
GRO(C6-C10)	TPH8015	< 10	2.8	10	mg/Kg	1	6/5/2024	
DRO(>C10-C28)	TPH8015	< 25	9.6	25	mg/Kg	1	6/5/2024	
ORO(>C28-C36)	TPH8015	< 25	9.6	25	mg/Kg	1	6/5/2024	
Total TPH (C6-C36)	TPH8015	< 50	20	50	mg/Kg	1	6/5/2024	

BTXS_GCMS	1,2-Dichloroethane-d4	95%	51—145
BTXS_GCMS	Toluene-d8	93%	54—173
TPH8015	o-Terphenyl	122%	47—142

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits

* Non-NELAP Standards ** Sub Contracted *** Not in Compliance

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

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ALAMO ANALYTICAL LABORATORIES, LTD.

Date: 10-Jun-24

Analytical Results Report

CLIENT: Envirotech, Inc

Lab Order 2405115

Project: WPX (Devon) / RDX 16 # 008

Collection Date: 5/24/2024 10:40:00 AM

Matrix: SOIL

Lab ID: 2405115-05A

Client Sample ID: FS05

Analyses	Test Code	Result	MDL	PQL	Units	DF	Date Analyzed	Qual
TestName: BTEX		Analyst: SUB						
Benzene	BTXS_GCM	< 0.005	0.0011	0.005	mg/Kg	1	6/5/2024	
Toluene	BTXS_GCM	< 0.005	0.001	0.005	mg/Kg	1	6/5/2024	
Ethylbenzene	BTXS_GCM	< 0.005	0.0013	0.005	mg/Kg	1	6/5/2024	
Xylenes, Total	BTXS_GCM	< 0.015	0.0015	0.015	mg/Kg	1	6/5/2024	
TestName: CHLORIDE BY ION CHROMATOGR		Analyst: YK						
Chloride	CL_R_S	6480	177	400	mg/Kg	100	6/6/2024	
TestName: TPH Method 8015 Extn to C36		Analyst: SLF						
GRO(C6-C10)	TPH8015	< 10	2.8	10	mg/Kg	1	6/5/2024	
DRO(>C10-C28)	TPH8015	< 25	9.6	25	mg/Kg	1	6/5/2024	
ORO(>C28-C36)	TPH8015	< 25	9.6	25	mg/Kg	1	6/5/2024	
Total TPH (C6-C36)	TPH8015	< 50	20	50	mg/Kg	1	6/5/2024	

BTXS_GCMS	1,2-Dichloroethane-d4	97%	51—145
BTXS_GCMS	Toluene-d8	93%	54—173
TPH8015	o-Terphenyl	81%	47—142

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits

* Non-NELAP Standards ** Sub Contracted *** Not in Compliance

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

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ALAMO ANALYTICAL LABORATORIES, LTD.

Date: 10-Jun-24

Analytical Results Report

CLIENT: Envirotech, Inc

Lab Order 2405115

Project: WPX (Devon) / RDX 16 # 008

Collection Date: 5/24/2024 10:50:00 AM

Matrix: SOIL

Lab ID: 2405115-06A

Client Sample ID: FS06

Analyses	Test Code	Result	MDL	PQL	Units	DF	Date Analyzed	Qual
TestName: BTEX					Analyst: SUB			
Benzene	BTXS_GCM	< 0.005	0.0011	0.005	mg/Kg	1	6/5/2024	
Toluene	BTXS_GCM	< 0.005	0.001	0.005	mg/Kg	1	6/5/2024	
Ethylbenzene	BTXS_GCM	0.0069	0.0013	0.005	mg/Kg	1	6/5/2024	
Xylenes, Total	BTXS_GCM	0.0221	0.0015	0.015	mg/Kg	1	6/5/2024	
TestName: CHLORIDE BY ION CHROMATOGR					Analyst: YK			
Chloride	CL_R_S	8460	177	400	mg/Kg	100	6/6/2024	
TestName: TPH Method 8015 Extn to C36					Analyst: SLF			
GRO(C6-C10)	TPH8015	< 10	2.8	10	mg/Kg	1	6/5/2024	
DRO(>C10-C28)	TPH8015	162	9.6	25	mg/Kg	1	6/5/2024	
ORO(>C28-C36)	TPH8015	50	9.6	25	mg/Kg	1	6/5/2024	
Total TPH (C6-C36)	TPH8015	212	20	50	mg/Kg	1	6/5/2024	

BTXS_GCMS	1,2-Dichloroethane-d4	93%	51—145
BTXS_GCMS	Toluene-d8	92%	54—173
TPH8015	o-Terphenyl	105%	47—142

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits

* Non-NELAP Standards ** Sub Contracted *** Not in Compliance

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

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ALAMO ANALYTICAL LABORATORIES, LTD.

Date: 10-Jun-24

Analytical Results Report

CLIENT: Envirotech, Inc

Lab Order 2405115

Project: WPX (Devon) / RDX 16 # 008

Collection Date: 5/24/2024 11:00:00 AM

Matrix: SOIL

Lab ID: 2405115-07A

Client Sample ID: FS07

Analyses	Test Code	Result	MDL	PQL	Units	DF	Date Analyzed	Qual
TestName: BTEX					Analyst: SUB			
Benzene	BTXS_GCM	< 0.005	0.0011	0.005	mg/Kg	1	6/5/2024	
Toluene	BTXS_GCM	< 0.005	0.001	0.005	mg/Kg	1	6/5/2024	
Ethylbenzene	BTXS_GCM	0.0214	0.0013	0.005	mg/Kg	1	6/5/2024	
Xylenes, Total	BTXS_GCM	0.0963	0.0015	0.015	mg/Kg	1	6/5/2024	
TestName: CHLORIDE BY ION CHROMATOGR					Analyst: YK			
Chloride	CL_R_S	15500	177	400	mg/Kg	100	6/6/2024	
TestName: TPH Method 8015 Extn to C36					Analyst: SLF			
GRO(C6-C10)	TPH8015	< 10	2.8	10	mg/Kg	1	6/5/2024	
DRO(>C10-C28)	TPH8015	1030	9.6	25	mg/Kg	1	6/5/2024	
ORO(>C28-C36)	TPH8015	220	9.6	25	mg/Kg	1	6/5/2024	
Total TPH (C6-C36)	TPH8015	1250	20	50	mg/Kg	1	6/5/2024	

BTXS_GCMS	1,2-Dichloroethane-d4	95%	51—145
BTXS_GCMS	Toluene-d8	92%	54—173
TPH8015	o-Terphenyl	117%	47—142

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits

* Non-NELAP Standards ** Sub Contracted *** Not in Compliance

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

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ALAMO ANALYTICAL LABORATORIES, LTD.

Date: 10-Jun-24

Analytical Results Report

CLIENT: Envirotech, Inc

Lab Order 2405115

Project: WPX (Devon) / RDX 16 # 008

Collection Date: 5/24/2024 11:10:00 AM

Matrix: SOIL

Lab ID: 2405115-08A

Client Sample ID: FS08

Analyses	Test Code	Result	MDL	PQL	Units	DF	Date Analyzed	Qual
TestName: BTEX		Analyst: SUB						
Benzene	BTXS_GCM	< 0.005	0.0011	0.005	mg/Kg	1	6/5/2024	
Toluene	BTXS_GCM	< 0.005	0.001	0.005	mg/Kg	1	6/5/2024	
Ethylbenzene	BTXS_GCM	0.0094	0.0013	0.005	mg/Kg	1	6/5/2024	
Xylenes, Total	BTXS_GCM	0.0414	0.0015	0.015	mg/Kg	1	6/5/2024	
TestName: CHLORIDE BY ION CHROMATOGR		Analyst: YK						
Chloride	CL_R_S	6040	177	400	mg/Kg	100	6/6/2024	
TestName: TPH Method 8015 Extn to C36		Analyst: SLF						
GRO(C6-C10)	TPH8015	< 10	2.8	10	mg/Kg	1	6/5/2024	
DRO(>C10-C28)	TPH8015	456	9.6	25	mg/Kg	1	6/5/2024	
ORO(>C28-C36)	TPH8015	93	9.6	25	mg/Kg	1	6/5/2024	
Total TPH (C6-C36)	TPH8015	549	20	50	mg/Kg	1	6/5/2024	

BTXS_GCMS	1,2-Dichloroethane-d4	91%	51—145
BTXS_GCMS	Toluene-d8	91%	54—173
TPH8015	o-Terphenyl	116%	47—142

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits

* Non-NELAP Standards ** Sub Contracted *** Not in Compliance

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

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ALAMO ANALYTICAL LABORATORIES, LTD.

Date: 10-Jun-24

Analytical Results Report

CLIENT: Envirotech, Inc

Lab Order 2405115

Project: WPX (Devon) / RDX 16 # 008

Collection Date: 5/24/2024 11:20:00 AM

Matrix: SOIL

Lab ID: 2405115-09A

Client Sample ID: FS09

Analyses	Test Code	Result	MDL	PQL	Units	DF	Date Analyzed	Qual
TestName: BTEX					Analyst: SUB			
Benzene	BTXS_GCM	< 0.005	0.0011	0.005	mg/Kg	1	6/5/2024	
Toluene	BTXS_GCM	< 0.005	0.001	0.005	mg/Kg	1	6/5/2024	
Ethylbenzene	BTXS_GCM	0.0065	0.0013	0.005	mg/Kg	1	6/5/2024	
Xylenes, Total	BTXS_GCM	0.0205	0.0015	0.015	mg/Kg	1	6/5/2024	
TestName: CHLORIDE BY ION CHROMATOGR					Analyst: YK			
Chloride	CL_R_S	11500	177	400	mg/Kg	100	6/6/2024	
TestName: TPH Method 8015 Extn to C36					Analyst: SLF			
GRO(C6-C10)	TPH8015	< 10	2.8	10	mg/Kg	1	6/5/2024	
DRO(>C10-C28)	TPH8015	296	9.6	25	mg/Kg	1	6/5/2024	
ORO(>C28-C36)	TPH8015	75	9.6	25	mg/Kg	1	6/5/2024	
Total TPH (C6-C36)	TPH8015	371	20	50	mg/Kg	1	6/5/2024	

BTXS_GCMS	1,2-Dichloroethane-d4	97%	51—145
BTXS_GCMS	Toluene-d8	96%	54—173
TPH8015	o-Terphenyl	86%	47—142

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits

* Non-NELAP Standards ** Sub Contracted *** Not in Compliance

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

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ALAMO ANALYTICAL LABORATORIES, LTD.

Date: 10-Jun-24

Analytical Results Report

CLIENT: Envirotech, Inc

Lab Order 2405115

Project: WPX (Devon) / RDX 16 # 008

Collection Date: 5/24/2024 11:30:00 AM

Matrix: SOIL

Lab ID: 2405115-10A

Client Sample ID: FS10

Analyses	Test Code	Result	MDL	PQL	Units	DF	Date Analyzed	Qual
TestName: BTEX		Analyst: SUB						
Benzene	BTXS_GCM	< 0.005	0.0011	0.005	mg/Kg	1	6/5/2024	
Toluene	BTXS_GCM	0.0073	0.001	0.005	mg/Kg	1	6/5/2024	
Ethylbenzene	BTXS_GCM	0.0283	0.0013	0.005	mg/Kg	1	6/5/2024	
Xylenes, Total	BTXS_GCM	0.108	0.0015	0.015	mg/Kg	1	6/5/2024	
TestName: CHLORIDE BY ION CHROMATOGR		Analyst: YK						
Chloride	CL_R_S	16500	177	400	mg/Kg	100	6/6/2024	
TestName: TPH Method 8015 Extn to C36		Analyst: SLF						
GRO(C6-C10)	TPH8015	< 10	2.8	10	mg/Kg	1	6/5/2024	
DRO(>C10-C28)	TPH8015	1220	9.6	25	mg/Kg	1	6/5/2024	
ORO(>C28-C36)	TPH8015	258	9.6	25	mg/Kg	1	6/5/2024	
Total TPH (C6-C36)	TPH8015	1480	20	50	mg/Kg	1	6/5/2024	

BTXS_GCMS	1,2-Dichloroethane-d4	100%	51—145
BTXS_GCMS	Toluene-d8	92%	54—173
TPH8015	o-Terphenyl	134%	47—142

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits

* Non-NELAP Standards ** Sub Contracted *** Not in Compliance

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

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ALAMO ANALYTICAL LABORATORIES, LTD.

Date: 10-Jun-24

Analytical Results Report

CLIENT: Envirotech, Inc

Lab Order 2405115

Project: WPX (Devon) / RDX 16 # 008

Collection Date: 5/24/2024 11:40:00 AM

Matrix: SOIL

Lab ID: 2405115-11A

Client Sample ID: FS11

Analyses	Test Code	Result	MDL	PQL	Units	DF	Date Analyzed	Qual
TestName: BTEX		Analyst: SUB						
Benzene	BTXS_GCM	< 0.005	0.0011	0.005	mg/Kg	1	6/2/2024	
Toluene	BTXS_GCM	< 0.005	0.001	0.005	mg/Kg	1	6/2/2024	
Ethylbenzene	BTXS_GCM	0.0054	0.0013	0.005	mg/Kg	1	6/2/2024	
Xylenes, Total	BTXS_GCM	0.0239	0.0015	0.015	mg/Kg	1	6/2/2024	
TestName: CHLORIDE BY ION CHROMATOGR		Analyst: YK						
Chloride	CL_R_S	5490	1.77	4	mg/Kg	100	6/3/2024	
TestName: TPH Method 8015 Extn to C36		Analyst: SLF						
GRO(C6-C10)	TPH8015	< 10	2.8	10	mg/Kg	1	6/5/2024	
DRO(>C10-C28)	TPH8015	180	9.6	25	mg/Kg	1	6/5/2024	
ORO(>C28-C36)	TPH8015	33	9.6	25	mg/Kg	1	6/5/2024	
Total TPH (C6-C36)	TPH8015	213	20	50	mg/Kg	1	6/5/2024	

BTXS_GCMS	1,2-Dichloroethane-d4	91%	51—145
BTXS_GCMS	Toluene-d8	99%	54—173
TPH8015	o-Terphenyl	84%	47—142

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits

* Non-NELAP Standards ** Sub Contracted *** Not in Compliance

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

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ALAMO ANALYTICAL LABORATORIES, LTD.

Date: 10-Jun-24

Analytical Results Report

CLIENT: Envirotech, Inc

Lab Order 2405115

Project: WPX (Devon) / RDX 16 # 008

Collection Date: 5/24/2024 11:50:00 AM

Matrix: SOIL

Lab ID: 2405115-12A

Client Sample ID: FS12

Analyses	Test Code	Result	MDL	PQL	Units	DF	Date Analyzed	Qual
TestName: BTEX					Analyst: SUB			
Benzene	BTXS_GCM	< 0.005	0.0011	0.005	mg/Kg	1	6/2/2024	
Toluene	BTXS_GCM	0.0098	0.001	0.005	mg/Kg	1	6/2/2024	
Ethylbenzene	BTXS_GCM	0.0396	0.0013	0.005	mg/Kg	1	6/2/2024	
Xylenes, Total	BTXS_GCM	0.142	0.0015	0.015	mg/Kg	1	6/2/2024	
TestName: CHLORIDE BY ION CHROMATOGR					Analyst: YK			
Chloride	CL_R_S	13500	1.77	4	mg/Kg	100	6/3/2024	
TestName: TPH Method 8015 Extn to C36					Analyst: SLF			
GRO(C6-C10)	TPH8015	53	2.8	10	mg/Kg	1	6/5/2024	
DRO(>C10-C28)	TPH8015	596	9.6	25	mg/Kg	1	6/5/2024	
ORO(>C28-C36)	TPH8015	338	9.6	25	mg/Kg	1	6/5/2024	
Total TPH (C6-C36)	TPH8015	987	20	50	mg/Kg	1	6/5/2024	

BTXS_GCMS	1,2-Dichloroethane-d4	98%	51—145
BTXS_GCMS	Toluene-d8	101%	54—173
TPH8015	o-Terphenyl	112%	47—142

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits

* Non-NELAP Standards ** Sub Contracted *** Not in Compliance

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

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ALAMO ANALYTICAL LABORATORIES, LTD.

Date: 10-Jun-24

Analytical Results Report

CLIENT: Envirotech, Inc

Lab Order 2405115

Project: WPX (Devon) / RDX 16 # 008

Collection Date: 5/24/2024 12:00:00 PM

Matrix: SOIL

Lab ID: 2405115-13A

Client Sample ID: FS13

Analyses	Test Code	Result	MDL	PQL	Units	DF	Date Analyzed	Qual
TestName: BTEX								Analyst: SUB
Benzene	BTXS_GCM	< 0.005	0.0011	0.005	mg/Kg	1	6/2/2024	
Toluene	BTXS_GCM	< 0.005	0.001	0.005	mg/Kg	1	6/2/2024	
Ethylbenzene	BTXS_GCM	0.0069	0.0013	0.005	mg/Kg	1	6/2/2024	
Xylenes, Total	BTXS_GCM	0.0283	0.0015	0.015	mg/Kg	1	6/2/2024	
TestName: CHLORIDE BY ION CHROMATOGR								Analyst: YK
Chloride	CL_R_S	1300	1.77	4	mg/Kg	10	6/3/2024	
TestName: TPH Method 8015 Extn to C36								Analyst: SLF
GRO(C6-C10)	TPH8015	< 10	2.8	10	mg/Kg	1	6/5/2024	
DRO(>C10-C28)	TPH8015	315	9.6	25	mg/Kg	1	6/5/2024	
ORO(>C28-C36)	TPH8015	79	9.6	25	mg/Kg	1	6/5/2024	
Total TPH (C6-C36)	TPH8015	394	20	50	mg/Kg	1	6/5/2024	

BTXS_GCMS	1,2-Dichloroethane-d4	96%	51—145
BTXS_GCMS	Toluene-d8	103%	54—173
TPH8015	o-Terphenyl	116%	47—142

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits

* Non-NELAP Standards ** Sub Contracted *** Not in Compliance

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

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ALAMO ANALYTICAL LABORATORIES, LTD.

Date: 10-Jun-24

Analytical Results Report

CLIENT: Envirotech, Inc

Lab Order 2405115

Project: WPX (Devon) / RDX 16 # 008

Collection Date: 5/24/2024 12:10:00 PM

Matrix: SOIL

Lab ID: 2405115-14A

Client Sample ID: FS14

Analyses	Test Code	Result	MDL	PQL	Units	DF	Date Analyzed	Qual
TestName: BTEX		Analyst: SUB						
Benzene	BTXS_GCM	< 0.005	0.0011	0.005	mg/Kg	1	6/6/2024	
Toluene	BTXS_GCM	< 0.005	0.001	0.005	mg/Kg	1	6/6/2024	
Ethylbenzene	BTXS_GCM	0.0083	0.0013	0.005	mg/Kg	1	6/6/2024	
Xylenes, Total	BTXS_GCM	0.0347	0.0015	0.015	mg/Kg	1	6/6/2024	
TestName: CHLORIDE BY ION CHROMATOGR		Analyst: YK						
Chloride	CL_R_S	1290	1.77	4	mg/Kg	10	6/6/2024	
TestName: TPH Method 8015 Extn to C36		Analyst: SLF						
GRO(C6-C10)	TPH8015	< 10	2.8	10	mg/Kg	1	6/5/2024	
DRO(>C10-C28)	TPH8015	286	9.6	25	mg/Kg	1	6/5/2024	
ORO(>C28-C36)	TPH8015	100	9.6	25	mg/Kg	1	6/5/2024	
Total TPH (C6-C36)	TPH8015	386	20	50	mg/Kg	1	6/5/2024	

BTXS_GCMS	1,2-Dichloroethane-d4	94%	51—145
BTXS_GCMS	Toluene-d8	91%	54—173
TPH8015	o-Terphenyl	100%	47—142

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits

* Non-NELAP Standards ** Sub Contracted *** Not in Compliance

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

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ALAMO ANALYTICAL LABORATORIES, LTD.

Date: 10-Jun-24

CLIENT: Envirotech, Inc

Work Order: 2405115

Project: WPX (Devon) / RDX 16 # 008

QC SUMMARY REPORT

Analyte	%REC				%REC		RPD		Low - High		RPD	
	BLK	SPK value	LCS	LCSD	RPD %	RPD Limit	MS	MSD	%	Limit	Parent	DUP
Batch ID: BTXS_GCMS-6/2/2024	TestName: BTEX											
Run ID: BTEX1_240602B	Test Code: SW8260B				Units: mg/Kg		Analysis Date: 6/2/2024				Prep Date: 6/2/2024	
Benzene	<0.005	0.05	100.8%				104.0%	96.7%	7.000	30.0	57 - 142	
Toluene	<0.005	0.05	93.8%				97.9%	90.6%	8.000	30.0	53 - 145	
Ethylbenzene	<0.005	0.05	97.9%				109.0%	116.2%	6.000	30.0	66 - 142	
Xylenes, Total	<0.015	0.15	101.2%				105.3%	104.5%	1.000	30.0	55 - 140	
Batch ID: BTXS_GCMS-6/5/2024	TestName: BTEX											
Run ID: BTEX1_240605B	Test Code: SW8260B				Units: mg/Kg		Analysis Date: 6/5/2024				Prep Date: 6/5/2024	
Benzene	<0.005	0.05	91.4%				87.6%	90.2%	3.000	30.0	57 - 142	
Toluene	<0.005	0.05	91.5%				97.0%	93.1%	3.000	30.0	53 - 145	
Ethylbenzene	<0.005	0.05	92.7%				90.9%	96.2%	3.000	30.0	66 - 142	
Xylenes, Total	<0.015	0.15	87.8%				94.3%	100.7%	4.000	30.0	55 - 140	
Batch ID: BTXS_GCMS-6/6/2024	TestName: BTEX											
Run ID: BTEX1_240606A	Test Code: SW8260B				Units: mg/Kg		Analysis Date: 6/6/2024				Prep Date: 6/6/2024	
Benzene	<0.005	0.05	92.2%				96.3%	89.9%	7.000	30.0	57 - 142	
Toluene	<0.005	0.05	96.6%				89.9%	90.6%	1.000	30.0	53 - 145	
Ethylbenzene	<0.005	0.05	96.7%				91.9%	86.1%	7.000	30.0	66 - 142	
Xylenes, Total	<0.015	0.15	94.4%				92.5%	87.4%	6.000	30.0	55 - 140	
Batch ID: CL_R_S-6/3/2024	TestName: CHLORIDE BY ION CHROMATOGRAPH											
Run ID: CL_240603B	Test Code: E300				Units: mg/Kg		Analysis Date: 6/3/2024 8:40:00 AM				Prep Date: 6/2/2024 4:10:00 P	
Chloride	<4	100	92.2%				89.7%	94.3%	2.000	30.0	80 - 120	

Approved by:

Laboratory QC Report

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ALAMO ANALYTICAL LABORATORIES, LTD.


Date: 10-Jun-24

CLIENT: Envirotech, Inc
Work Order: 2405115

Project: WPX (Devon) / RDX 16 # 008

QC SUMMARY REPORT

Analyte	%REC				%REC				RPD		Low - High		RPD	
	BLK	SPK value	LCS	LCSD	RPD %	RPD Limit	MS	MSD	%	Limit	Limit	Parent	DUP	%
Batch ID: CL_R_S-6/6/2024	TestName: CHLORIDE BY ION CHROMATOGRAPH													
Run ID: CL_240606A	Test Code: E300 Units: mg/Kg Analysis Date: 6/6/2024 8:05:00 AM Prep Date: 6/5/2024 4:00:00 P													
Chloride	<4	100	91.2%				92.9%	96.3%	2.000	30.0	80 - 120			
Batch ID: CL_R_S-6/6/2024	TestName: CHLORIDE BY ION CHROMATOGRAPH													
Run ID: CL_240606B	Test Code: E300 Units: mg/Kg Analysis Date: 6/6/2024 1:25:00 PM Prep Date: 6/5/2024 4:55:00 P													
Chloride	<4	100	99.8%				93.3%	98.4%	3.000	30.0	80 - 120			
Batch ID: TPH8015-6/10/2024	TestName: TPH Method 8015 Extn to C36													
Run ID: DRO1_240605B	Test Code: DRO-8015 Units: mg/Kg Analysis Date: 6/5/2024 Prep Date: 6/5/2024													
GRO(C6-C10)	<10	500	93.2%				124.6%	87.4%	35.000	30.0	46 - 144			
DRO(>C10-C28)	<25	500	100.8%				112.0%	95.8%	16.000	30.0	51 - 153			
ORO(>C28-C36)	<25													
Total TPH (C6-C36)	<50													

Approved by: 

Laboratory QC Report

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Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only				TAT				EPA Program	
Project: RDX 16 #008				Attention: Jim Raley		Lab WO# E405374		Job Number 01058-0007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.						5 day TAT			RCRA		
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220											
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502											
Phone: 832-541-7719				Email: jim.raley@dv.com											
Email: Devon-team@etechnv.com				WO: 21141253											
Collected by: Edyte Konan				Incident ID: nAPP2307930900											
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	
0:00	05.24.24	S	1	FS01	1	0.5'						X		240511501	
0:10	05.24.24	S	1	FS02	2	0.5'						X		-02	
0:20	05.24.24	S	1	FS03	3	0.5'						X		-03	
0:30	05.24.24	S	1	FS04	4	0.5'						X		-04	
0:40	05.24.24	S	1	FS05	5	0.5'						X		-05	
0:50	05.24.24	S	1	FS06	6	0.5'						X		-06	
1:00	05.24.24	S	1	FS07	7	0.5'						X		-07	
1:10	05.24.24	S	1	FS08	8	0.5'						X		-08	
1:20	05.24.24	S	1	FS09	9	0.5'						X		-09	
1:30	05.24.24	S	1	FS10	10	0.5'						X		-10	
Additional Instructions:															
I, the field sampler, attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date and time of collection is considered fraud and may be grounds for legal action. Sampled by: EK															
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.															
Inquired by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only							
[Signature]		05/28/24	11:20	Michelle Gonzalez		5-28-24	1140	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N							
Inquired by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3							
Michelle Gonzalez		5-28-24	1600	L.M.		5-28-24	1730								
Inquired by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C							
L.M.		5-28-24	2400	[Signature]		5/29/24	0800	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.															
Inquired by: (Signature)		Date	Time	Received by: (Signature)		Date	Time								
L.M.		5/30/24	0923	Michelle Gonzalez		5-30-24	0923								
L.M.		5/30/24	1820	Michelle Gonzalez		5-30-24	1820								

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only		TAT			EPA Program			
Project: RDX 16 #008				Attention: Jim Raley		Lab WO# E405374 Job Number 0058-0007		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.							5 day TAT			
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220		Analysis and Method					RCRA			
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502										
Phone: 832-541-7719				Email: jim.raley@dv.com							State			
Email: Devon-team@etechenv.com				WO: 21141253							NM CO UT AZ TX			
				Incident ID: nAPP2307930900										
Collected by: Edyte Konan														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
10:40	05.24.24	S	1	FS11	11	0.5'						X		2405115-11
1:50	05.24.24	S	1	FS12	12	0.5'						X		12
2:00	05.24.24	S	1	FS13	13	0.5'						X		13
2:10	05.24.24	S	1	FS14	14	0.5'						X		14
Additional Instructions:														
I, the sampler, attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date and time of collection is considered fraud and may be grounds for legal action.														
Sampled by: EK														
Received by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only						
Michelle Gonzales		05/28/24	1130	Michelle Gonzales		5/28/24	1140	Received on ice: V/ N						
Michelle Gonzales		5/28/24	1600	L.M.		5/28/24	1730	T1 T2 T3						
L.M.		5/28/24	2400	L.M.		5/29/24	0800	AVG Temp °C 4						
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other														
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA														
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.														
L.M.		5/30/24	0923	Michelle Gonzales		5/30/24	0923							
L.M.		5/30/24	1820	Michelle Gonzales		5/30/24	1820							

**ALAMO ANALYTICAL
LABORATORIES, LTD.**

10526 Gulfdale
San Antonio, Texas 78216
(210) 340-8121

**2500 Montana Avenue
El Paso, Texas 79903,
(915) 599-2182**

www.alamoanalytical.com

MUST BE COMPLETED BY CLIENT

Alamo's Client:		Client P.O. #:	Turnaround time: Standard (7) <input checked="" type="checkbox"/>
Envirotech Inc.		LAB	(in working days)
Project Manager:	Phone #:	RUSH: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3-5 <input type="checkbox"/> Days (additional charges)	
Raina Schwanz		505-632-1881	
Address:	Fax #:		
5796 US HWY 64			
Farmington, NM 87401			
Project Number:	Project Name:	Analysis for Permit Compliance:	Yes <input type="checkbox"/> No <input type="checkbox"/>
E405374	RDX 16#008		
Project Location:	Sampler's Signature:		
01058-0007			

[illegible]

Alamo Analytical Laboratories LTD
10526 Gulfdale, San Antonio, TX - 78216

Document Control No.
SOP-SAMP-REC Ver.13.2
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Figure 3

Sample Log-In Checklist

DATE: 5/13/24 TIME: 15:30 INITIALS: [Signature]

CLIENT: Envirotech PROJECT: W.O# 2405113 to 2405115

- Is a Chain of Custody present? ☒ Yes ☐ No
- Is a Chain of Custody properly completed? ☒ Yes ☐ No
- Are custody seals present? Yes ☒ No
If yes, are they intact? Yes ☒ No
Are they on: Sample _____ or on Shipping Container _____
- Are all samples tagged or labeled? ☒ Yes ☐ No
If yes, do the labels match the Chain of Custody? ☒ Yes ☐ No
- Do all shipping documents agree (i.e., number of coolers arrived vs. on tickets)
If not, describe below. Yes ☐ No ☒ N/A
- Are samples preserved properly? If not, describe below. ☒ Yes ☐ No
- Are all samples within holding times on arrival? ☒ Yes ☐ No
If not, describe below.
- Condition of shipping container: Intact 1 or _____
- Condition of samples: Intact 1 or _____
- Temperature of samples: Temp. (°C): 5.2 Corrected Temp. (°C): 5.2 Thermometer ID: DT1 or L2
- pH strip lot#: _____ Samples pH range: <2 >12
- Delivery agent: Client _____ UPS _____ Fed-Ex _____ Alamo P/U 1 Other _____
- Sample disposal: Return to client _____ Alamo Analytical Disposal 1
- Location (W1) (walk-in)/ F2 (Freezer 2 for TPH1005 soils)/ R2 (Refrigerator 2 for TPH & VOC water)

Comments: (Reference checklist item number from above, or for comments on resolution below):

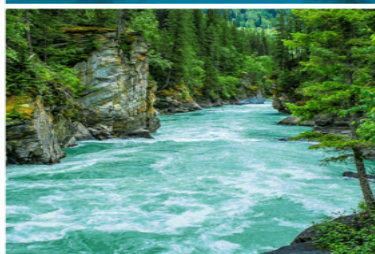
Record of contacting client for resolution of sample discrepancies (first and retry contact)**Contacted How?**

Name: _____ Phone _____ Fax _____ Date: ____/____/____ Time: _____

Name: _____ Phone _____ Fax _____ Date: ____/____/____ Time: _____

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E407022

Job Number: 01058-0007

Received: 7/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/11/24

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: 7/11/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E407022
Date Received: 7/3/2024 10:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/3/2024 10:00:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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 16 #008	Reported: 07/11/24 12:56
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
FS01 2'	E407022-01A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS02 4'	E407022-02A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS03 4'	E407022-03A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS04 2'	E407022-04A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS05 4'	E407022-05A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS06 4'	E407022-06A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS07 2'	E407022-07A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS08 4'	E407022-08A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS09 4'	E407022-09A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS10 2'	E407022-10A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS11 4'	E407022-11A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS12 2'	E407022-12A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS13 2'	E407022-13A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.
FS14 4'	E407022-14A	Soil	06/28/24	07/03/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 7/11/2024 12:56:56PM
--	--	-----------------------------------

FS01 2'
E407022-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Benzene	ND	0.0250	1	07/08/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/10/24	
Toluene	ND	0.0250	1	07/08/24	07/10/24	
o-Xylene	ND	0.0250	1	07/08/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID	91.3 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/09/24	
Surrogate: n-Nonane	102 %	50-200		07/08/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428011	
Chloride	2710	40.0	2	07/08/24	07/08/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/11/2024 12:56:56PM

FS02 4'

E407022-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Benzene	ND	0.0250	1	07/08/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/10/24	
Toluene	ND	0.0250	1	07/08/24	07/10/24	
o-Xylene	ND	0.0250	1	07/08/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID	90.9 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/09/24	
Surrogate: n-Nonane	89.8 %	50-200		07/08/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428011	
Chloride	1370	20.0	1	07/08/24	07/08/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/11/2024 12:56:56PM

FS03 4'

E407022-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Benzene	ND	0.0250	1	07/08/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/10/24	
Toluene	ND	0.0250	1	07/08/24	07/10/24	
o-Xylene	ND	0.0250	1	07/08/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID	90.5 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/09/24	
Surrogate: n-Nonane	98.1 %	50-200		07/08/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428011	
Chloride	2930	40.0	2	07/08/24	07/08/24	



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
7/11/2024 12:56:56PM

FS04 2'

E407022-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Benzene	ND	0.0250	1	07/08/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/10/24	
Toluene	ND	0.0250	1	07/08/24	07/10/24	
o-Xylene	ND	0.0250	1	07/08/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.4 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2428007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/09/24	
Oil Range Organics (C28-C36)	55.3	50.0	1	07/08/24	07/09/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		07/08/24	07/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2428011	
Chloride	19900	400	20	07/08/24	07/08/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	Reported: 7/11/2024 12:56:56PM

FS05 4'

E407022-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Benzene	ND	0.0250	1	07/08/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/10/24	
Toluene	ND	0.0250	1	07/08/24	07/10/24	
o-Xylene	ND	0.0250	1	07/08/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID	91.6 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/09/24	
Surrogate: n-Nonane	101 %	50-200		07/08/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428011	
Chloride	6600	100	5	07/08/24	07/08/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/11/2024 12:56:56PM

FS06 4'

E407022-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Benzene	ND	0.0250	1	07/08/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/10/24	
Toluene	ND	0.0250	1	07/08/24	07/10/24	
o-Xylene	ND	0.0250	1	07/08/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID	91.5 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/09/24	
Surrogate: n-Nonane	105 %	50-200		07/08/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428011	
Chloride	9380	200	10	07/08/24	07/08/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported: 7/11/2024 12:56:56PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

FS07 2'

E407022-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Benzene	ND	0.0250	1	07/08/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/10/24	
Toluene	ND	0.0250	1	07/08/24	07/10/24	
o-Xylene	ND	0.0250	1	07/08/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.3 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2428007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/09/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		07/08/24	07/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2428011	
Chloride	1440	20.0	1	07/08/24	07/08/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/11/2024 12:56:56PM

FS08 4'

E407022-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Benzene	ND	0.0250	1	07/08/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/10/24	
Toluene	ND	0.0250	1	07/08/24	07/10/24	
o-Xylene	ND	0.0250	1	07/08/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID	92.1 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/09/24	
Surrogate: n-Nonane	101 %	50-200		07/08/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428011	
Chloride	6420	100	5	07/08/24	07/08/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/11/2024 12:56:56PM

FS09 4'

E407022-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Benzene	ND	0.0250	1	07/08/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/10/24	
Toluene	ND	0.0250	1	07/08/24	07/10/24	
o-Xylene	ND	0.0250	1	07/08/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID	92.1 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/09/24	
Surrogate: n-Nonane	102 %	50-200		07/08/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428011	
Chloride	5580	40.0	2	07/08/24	07/08/24	



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
7/11/2024 12:56:56PM

FS10 2'

E407022-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Benzene	ND	0.0250	1	07/08/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/10/24	
Toluene	ND	0.0250	1	07/08/24	07/10/24	
o-Xylene	ND	0.0250	1	07/08/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2428007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/10/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		07/08/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2428011	
Chloride	17100	400	20	07/08/24	07/08/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported: 7/11/2024 12:56:56PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

FS11 4'

E407022-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Benzene	ND	0.0250	1	07/08/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/10/24	
Toluene	ND	0.0250	1	07/08/24	07/10/24	
o-Xylene	ND	0.0250	1	07/08/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.0 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2428007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/10/24	
<i>Surrogate: n-Nonane</i>						
	87.2 %	50-200		07/08/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2428011	
Chloride	8660	200	10	07/08/24	07/08/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 7/11/2024 12:56:56PM
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FS12 2'

E407022-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Benzene	ND	0.0250	1	07/08/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/10/24	
Toluene	ND	0.0250	1	07/08/24	07/10/24	
o-Xylene	ND	0.0250	1	07/08/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/10/24	
Surrogate: 4-Bromochlorobenzene-PID	86.1 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	109 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2428007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/10/24	
Surrogate: n-Nonane	111 %	50-200		07/08/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428011	
Chloride	6350	100	5	07/08/24	07/08/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported: 7/11/2024 12:56:56PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

FS13 2'

E407022-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Benzene	ND	0.0250	1	07/08/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/10/24	
Toluene	ND	0.0250	1	07/08/24	07/10/24	
o-Xylene	ND	0.0250	1	07/08/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	85.9 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2428007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/10/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		07/08/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2428011	
Chloride	1880	20.0	1	07/08/24	07/08/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported: 7/11/2024 12:56:56PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

FS14 4'

E407022-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Benzene	ND	0.0250	1	07/08/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/10/24	
Toluene	ND	0.0250	1	07/08/24	07/10/24	
o-Xylene	ND	0.0250	1	07/08/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.1 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2428005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	109 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2428007	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/10/24	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		07/08/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2428011	
Chloride	10500	200	10	07/08/24	07/08/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/11/2024 12:56:56PM

Volatile Organics by EPA 8021B

Analyst: BA

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 (2428005-BLK1)

Prepared: 07/08/24 Analyzed: 07/09/24

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	7.33		8.00		91.6	70-130			

LCS (2428005-BS1)

Prepared: 07/08/24 Analyzed: 07/09/24

Benzene	4.52	0.0250	5.00		90.5	70-130			
Ethylbenzene	4.20	0.0250	5.00		84.0	70-130			
Toluene	4.43	0.0250	5.00		88.7	70-130			
o-Xylene	4.34	0.0250	5.00		86.8	70-130			
p,m-Xylene	8.65	0.0500	10.0		86.5	70-130			
Total Xylenes	13.0	0.0250	15.0		86.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.34		8.00		91.8	70-130			

Matrix Spike (2428005-MS1)

Source: E407021-24

Prepared: 07/08/24 Analyzed: 07/09/24

Benzene	5.34	0.0250	5.00	ND	107	54-133			
Ethylbenzene	4.96	0.0250	5.00	ND	99.2	61-133			
Toluene	5.23	0.0250	5.00	ND	105	61-130			
o-Xylene	5.10	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.32		8.00		91.5	70-130			

Matrix Spike Dup (2428005-MSD1)

Source: E407021-24

Prepared: 07/08/24 Analyzed: 07/09/24

Benzene	4.89	0.0250	5.00	ND	97.8	54-133	8.84	20	
Ethylbenzene	4.55	0.0250	5.00	ND	91.1	61-133	8.53	20	
Toluene	4.80	0.0250	5.00	ND	96.0	61-130	8.66	20	
o-Xylene	4.67	0.0250	5.00	ND	93.3	63-131	8.86	20	
p,m-Xylene	9.37	0.0500	10.0	ND	93.7	63-131	8.12	20	
Total Xylenes	14.0	0.0250	15.0	ND	93.6	63-131	8.37	20	
Surrogate: 4-Bromochlorobenzene-PID	7.34		8.00		91.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/11/2024 12:56:56PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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 (2428005-BLK1) Prepared: 07/08/24 Analyzed: 07/09/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.52		8.00		107	70-130			

LCS (2428005-BS2) Prepared: 07/08/24 Analyzed: 07/09/24

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0		95.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.67		8.00		108	70-130			

Matrix Spike (2428005-MS2) Source: E407021-24 Prepared: 07/08/24 Analyzed: 07/09/24

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.59		8.00		107	70-130			

Matrix Spike Dup (2428005-MSD2) Source: E407021-24 Prepared: 07/08/24 Analyzed: 07/09/24

Gasoline Range Organics (C6-C10)	49.3	20.0	50.0	ND	98.6	70-130	4.51	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.57		8.00		107	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/11/2024 12:56:56PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2428007-BLK1) Prepared: 07/08/24 Analyzed: 07/09/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.6		50.0		111	50-200			

LCS (2428007-BS1) Prepared: 07/08/24 Analyzed: 07/09/24

Diesel Range Organics (C10-C28)	314	25.0	250		126	38-132			
Surrogate: n-Nonane	55.9		50.0		112	50-200			

Matrix Spike (2428007-MS1) Source: E407022-07 Prepared: 07/08/24 Analyzed: 07/09/24

Diesel Range Organics (C10-C28)	315	25.0	250	ND	126	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

Matrix Spike Dup (2428007-MSD1) Source: E407022-07 Prepared: 07/08/24 Analyzed: 07/09/24

Diesel Range Organics (C10-C28)	307	25.0	250	ND	123	38-132	2.60	20	
Surrogate: n-Nonane	53.7		50.0		107	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/11/2024 12:56:56PM

Anions by EPA 300.0/9056A

Analyst: DT

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 (2428011-BLK1)					Prepared: 07/08/24 Analyzed: 07/08/24				
Chloride	ND	20.0							
LCS (2428011-BS1)					Prepared: 07/08/24 Analyzed: 07/08/24				
Chloride	246	20.0	250		98.3	90-110			
Matrix Spike (2428011-MS1)					Source: E407022-03		Prepared: 07/08/24 Analyzed: 07/08/24		
Chloride	3180	40.0	250	2930	97.1	80-120			
Matrix Spike Dup (2428011-MSD1)					Source: E407022-03		Prepared: 07/08/24 Analyzed: 07/08/24		
Chloride	3630	40.0	250	2930	279	80-120	13.3	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/11/24 12:56

- 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
- DNR Did not react with the addition of acid or base.

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 2

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only		TAT			EPA Program		
Project: RDX 16 #008					Attention: Jim Raley		Lab WO#		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 407022		Job Number		04058-0007		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@dnv.com									
Email: Devon-team@etechnv.com					WO: 21141253									
					Incident ID: nAPP2307930900									
Collected by: Edyte Konan														
Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/TSO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 8010	Chloride 308.0	BDOC NM	GDQC TX	Remarks
10:00	06.28.24	S	1	FS01	1	2'						X		
10:30	06.28.24	S	1	FS02	2	4'						X		
11:00	06.28.24	S	1	FS03	3	4'						X		
11:30	06.28.24	S	1	FS04	4	2'						X		
12:00	06.28.24	S	1	FS05	5	4'						X		
12:30	06.28.24	S	1	FS06	6	4'						X		
13:00	06.28.24	S	1	FS07	7	2'						X		
13:30	06.28.24	S	1	FS08	8	4'						X		
14:00	06.28.24	S	1	FS09	9	4'						X		
14:30	06.28.24	S	1	FS10	10	2'						X		
Additional Instructions:														
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: EK														
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only						
[Signature]		07/02/24	06:00	Michelle Gonzales		07-02-24	0600	Received on ice: <input checked="" type="checkbox"/> N						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3						
Michelle Gonzales		07-02-24	1600	Andrew Musso		7/2/24	17:00							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C						
Andrew Musso		7/2/24	23:45	Alexa Michaels		7-3-24	10:00	4						
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other														
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA														
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.														



envirotech

Project Information

Chain of Custody

Page 2 of 2

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only		TAT				EPA Program					
Project: RDX 16 #008					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E467022		01058-0007					5 day TAT				
Address: 13000 W County Rd 100					City, State, Zip: Carlsbad, NM, 88220													
City, State, Zip: Odessa, TX, 79765					Phone: 575-885-7502											RCRA		
Phone: 832-541-7719					Email: jim.raley@devn.com													
Email: Devon-team@etechnv.com					WO: 21141253													
					Incident ID: nAPP2307930900													
Collected by: Edyte Konan																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRD/DRO/ORO by 8015	BTEX by 8011	VOC by 8160	Metals 6010	Chloride 300.0	SGDOC NIM	TL 300C	State				
														NM	CO	UT	AZ	TX
15:00	06.28.24	S	1	FS11	11	4'						X						
15:30	06.28.24	S	1	FS12	12	2'						X						
16:00	06.28.24	S	1	FS13	13	2'						X						
16:30	06.28.24	S	1	FS14	14	4'						X						
07/02/2024																		
Additional Instructions:																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>EX</u>																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
<u>[Signature]</u>		07-02-24	06:00	<u>Michelle Gonzales</u>		07-02-24	0600	Received on Ice: <input checked="" type="checkbox"/> N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____										
<u>Michelle Gonzales</u>		07-02-24	1600	<u>Andrew Musso</u>		7/2/24	17:00											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>										
<u>Andrew Musso</u>		7/2/24	23:45	<u>Alexa Michaels</u>		7-3-24	10:00											
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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Envirotech Analytical Laboratory

Printed: 7/8/2024 12:10:21PM

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:	07/03/24 10:00	Work Order ID:	E407022
Phone:	(539) 573-4018	Date Logged In:	07/03/24 14:45	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	07/11/24 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: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? 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 16 #008

Work Order: E403248

Job Number: 01058-0007

Received: 3/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/1/24

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: 4/1/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E403248
Date Received: 3/26/2024 11:01:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/26/2024 11:01:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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
rainaschwanz@envirotech-inc.com

Alexa Michaels
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/01/24 09:57

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 0-0.25'	E403248-01A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.
SW02 0-0.25'	E403248-02A	Soil	03/22/24	03/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/1/2024 9:57:38AM
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SW01 0-0.25'

E403248-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	92.5 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.2 %	70-130		03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413063	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/27/24	
Surrogate: n-Nonane	80.6 %	50-200		03/27/24	03/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413070	
Chloride	31.0	20.0	1	03/27/24	03/28/24	



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
4/1/2024 9:57:38AM

SW02 0-0.25'

E403248-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.7 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2413054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413063	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/27/24	
<i>Surrogate: n-Nonane</i>		80.5 %	50-200	03/27/24	03/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413070	
Chloride	34.3	20.0	1	03/27/24	03/28/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/1/2024 9:57:38AM

Volatile Organics by EPA 8021B

Analyst: EG

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 (2413054-BLK1) Prepared: 03/26/24 Analyzed: 03/28/24

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	7.68		8.00		96.0	70-130			

LCS (2413054-BS1) Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	4.95	0.0250	5.00		99.1	70-130			
Ethylbenzene	4.93	0.0250	5.00		98.7	70-130			
Toluene	4.93	0.0250	5.00		98.6	70-130			
o-Xylene	4.89	0.0250	5.00		97.8	70-130			
p,m-Xylene	9.95	0.0500	10.0		99.5	70-130			
Total Xylenes	14.8	0.0250	15.0		98.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			

Matrix Spike (2413054-MS1) Source: E403245-03 Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	4.95	0.0250	5.00	ND	99.0	54-133			
Ethylbenzene	4.89	0.0250	5.00	ND	97.8	61-133			
Toluene	4.91	0.0250	5.00	ND	98.2	61-130			
o-Xylene	4.84	0.0250	5.00	ND	96.7	63-131			
p,m-Xylene	9.86	0.0500	10.0	ND	98.6	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2413054-MSD1) Source: E403245-03 Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	4.79	0.0250	5.00	ND	95.9	54-133	3.17	20	
Ethylbenzene	4.77	0.0250	5.00	ND	95.3	61-133	2.61	20	
Toluene	4.77	0.0250	5.00	ND	95.3	61-130	3.01	20	
o-Xylene	4.69	0.0250	5.00	ND	93.8	63-131	3.09	20	
p,m-Xylene	9.58	0.0500	10.0	ND	95.8	63-131	2.87	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.1	63-131	2.94	20	
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/1/2024 9:57:38AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

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 (2413054-BLK1) Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

LCS (2413054-BS2) Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	51.8	20.0	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

Matrix Spike (2413054-MS2) Source: E403245-03 Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.4	70-130			

Matrix Spike Dup (2413054-MSD2) Source: E403245-03 Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.4	70-130	2.26	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/1/2024 9:57:38AM

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 (2413063-BLK1) Prepared: 03/27/24 Analyzed: 03/27/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.1		50.0		80.2	50-200			

LCS (2413063-BS1) Prepared: 03/27/24 Analyzed: 03/27/24

Diesel Range Organics (C10-C28)	248	25.0	250		99.1	38-132			
Surrogate: n-Nonane	41.0		50.0		81.9	50-200			

Matrix Spike (2413063-MS1) Source: E403251-01 Prepared: 03/27/24 Analyzed: 03/27/24

Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.8	38-132			
Surrogate: n-Nonane	39.8		50.0		79.6	50-200			

Matrix Spike Dup (2413063-MSD1) Source: E403251-01 Prepared: 03/27/24 Analyzed: 03/27/24

Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.3	38-132	0.478	20	
Surrogate: n-Nonane	39.9		50.0		79.9	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/1/2024 9:57:38AM

Anions by EPA 300.0/9056A

Analyst: DT

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 (2413070-BLK1)					Prepared: 03/27/24 Analyzed: 03/27/24				
Chloride	ND	20.0							
LCS (2413070-BS1)					Prepared: 03/27/24 Analyzed: 03/27/24				
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2413070-MS1)					Source: E403251-01		Prepared: 03/27/24 Analyzed: 03/27/24		
Chloride	331	20.0	250	83.3	98.9	80-120			
Matrix Spike Dup (2413070-MSD1)					Source: E403251-01		Prepared: 03/27/24 Analyzed: 03/27/24		
Chloride	323	20.0	250	83.3	96.0	80-120	2.22	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/01/24 09:57

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- 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 16 #008						Attention: Jim Raley Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@dmv.com WBS/WO: 21141253 Incident ID: nAPP2307930900						Lab WO# E403248				Job Number 01058-005F				1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Gilbert Moreno																							5 Day TAT					
Address: 13000 W County Rd 100																												
City, State, Zip: Odessa, TX, 79765																												
Phone: 832-541-7719																												
Email: Devon-team@etechenv.com																												
Collected by: Gilbert Moreno																												
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDOC TX	State													
															NM	CO	UT	AZ	TX									
															x													
															Remarks													
12:30	3.22.24	S	1	SW01	1	0-0.25'							X															
12:40	3.22.24	S	1	SW02	2	0-0.25'							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 3.25.24 Time 10:00 Received by: (Signature) _____ Date 3.25.24 Time 1020															Received on ice: YES N													
Relinquished by: (Signature) _____ Date 3.25.24 Time 1420 Received by: (Signature) _____ Date 3.25.24 Time 1630															T1 _____ T2 _____ T3 _____													
Relinquished by: (Signature) _____ Date 3-25-24 Time 2015 Received by: (Signature) _____ Date 3/26/24 Time 11:01															AVG Temp °C 4													
Sample Matrix: S - Soil, sd - Solid, sg - Sludge, A - Aqueous, O - Other _____															Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA													
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																												

Envirotech Analytical Laboratory

Printed: 3/26/2024 4:13:51PM

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:	03/26/24 11:01	Work Order ID:	E403248
Phone:	(539) 573-4018	Date Logged In:	03/26/24 11:00	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	04/01/24 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 16 #008

Work Order: E407023

Job Number: 01058-0007

Received: 7/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/11/24

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.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/11/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E407023
Date Received: 7/3/2024 10:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/3/2024 10:00:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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 16 #008	Reported: 07/11/24 09:42
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
SW01 0-4'	E407023-01A	Soil	07/01/24	07/03/24	Glass Jar, 2 oz.
SW02 0-4'	E407023-02A	Soil	07/01/24	07/03/24	Glass Jar, 2 oz.
SW03 0-2'	E407023-03A	Soil	07/01/24	07/03/24	Glass Jar, 2 oz.
SW04 0-4'	E407023-04A	Soil	07/01/24	07/03/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 7/11/2024 9:42:31AM
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SW01 0-4'
E407023-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2428010	
Benzene	ND	0.0250	1	07/08/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/10/24	
Toluene	ND	0.0250	1	07/08/24	07/10/24	
o-Xylene	ND	0.0250	1	07/08/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/10/24	
Surrogate: Bromofluorobenzene		98.1 %	70-130	07/08/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	07/08/24	07/10/24	
Surrogate: Toluene-d8		93.7 %	70-130	07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2428010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/10/24	
Surrogate: Bromofluorobenzene		98.1 %	70-130	07/08/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	07/08/24	07/10/24	
Surrogate: Toluene-d8		93.7 %	70-130	07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2428006	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/09/24	
Surrogate: n-Nonane		102 %	50-200	07/08/24	07/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428011	
Chloride	349	20.0	1	07/08/24	07/08/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 7/11/2024 9:42:31AM
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SW02 0-4'
E407023-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428010
Benzene	ND	0.0250	1	07/08/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/10/24	
Toluene	ND	0.0250	1	07/08/24	07/10/24	
o-Xylene	ND	0.0250	1	07/08/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/10/24	
Surrogate: Bromofluorobenzene	99.3 %	70-130		07/08/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		07/08/24	07/10/24	
Surrogate: Toluene-d8	92.2 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428010
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/10/24	
Surrogate: Bromofluorobenzene	99.3 %	70-130		07/08/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		07/08/24	07/10/24	
Surrogate: Toluene-d8	92.2 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428006
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/09/24	
Surrogate: n-Nonane	105 %	50-200		07/08/24	07/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2428011
Chloride	348	20.0	1	07/08/24	07/08/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported: 7/11/2024 9:42:31AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

SW03 0-2'
E407023-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2428010	
Benzene	ND	0.0250	1	07/08/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/10/24	
Toluene	ND	0.0250	1	07/08/24	07/10/24	
o-Xylene	ND	0.0250	1	07/08/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/10/24	
Surrogate: Bromofluorobenzene	97.7 %	70-130		07/08/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/08/24	07/10/24	
Surrogate: Toluene-d8	92.3 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2428010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/10/24	
Surrogate: Bromofluorobenzene	97.7 %	70-130		07/08/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/08/24	07/10/24	
Surrogate: Toluene-d8	92.3 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2428006	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/09/24	
Surrogate: n-Nonane	105 %	50-200		07/08/24	07/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2428011	
Chloride	363	20.0	1	07/08/24	07/08/24	



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
7/11/2024 9:42:31AM

SW04 0-4'

E407023-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428010
Benzene	ND	0.0250	1	07/08/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/10/24	
Toluene	ND	0.0250	1	07/08/24	07/10/24	
o-Xylene	ND	0.0250	1	07/08/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/10/24	
Surrogate: Bromofluorobenzene	98.7 %	70-130		07/08/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		07/08/24	07/10/24	
Surrogate: Toluene-d8	93.5 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2428010
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/10/24	
Surrogate: Bromofluorobenzene	98.7 %	70-130		07/08/24	07/10/24	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		07/08/24	07/10/24	
Surrogate: Toluene-d8	93.5 %	70-130		07/08/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428006
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/09/24	
Surrogate: n-Nonane	109 %	50-200		07/08/24	07/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2428011
Chloride	360	20.0	1	07/08/24	07/08/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/11/2024 9:42:31AM

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 (2428010-BLK1) Prepared: 07/08/24 Analyzed: 07/10/24

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	0.485		0.500		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.461		0.500		92.2	70-130			

LCS (2428010-BS1) Prepared: 07/08/24 Analyzed: 07/10/24

Benzene	2.62	0.0250	2.50		105	70-130			
Ethylbenzene	2.37	0.0250	2.50		94.8	70-130			
Toluene	2.24	0.0250	2.50		89.5	70-130			
o-Xylene	2.27	0.0250	2.50		90.8	70-130			
p,m-Xylene	4.54	0.0500	5.00		90.8	70-130			
Total Xylenes	6.81	0.0250	7.50		90.8	70-130			
Surrogate: Bromofluorobenzene	0.496		0.500		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.463		0.500		92.5	70-130			

Matrix Spike (2428010-MS1) Source: E407024-04 Prepared: 07/08/24 Analyzed: 07/10/24

Benzene	2.76	0.0250	2.50	ND	110	48-131			
Ethylbenzene	2.49	0.0250	2.50	ND	99.8	45-135			
Toluene	2.33	0.0250	2.50	ND	93.3	48-130			
o-Xylene	2.34	0.0250	2.50	ND	93.7	43-135			
p,m-Xylene	4.73	0.0500	5.00	ND	94.6	43-135			
Total Xylenes	7.07	0.0250	7.50	ND	94.3	43-135			
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.466		0.500		93.1	70-130			

Matrix Spike Dup (2428010-MSD1) Source: E407024-04 Prepared: 07/08/24 Analyzed: 07/10/24

Benzene	2.75	0.0250	2.50	ND	110	48-131	0.254	23	
Ethylbenzene	2.47	0.0250	2.50	ND	98.7	45-135	1.11	27	
Toluene	2.32	0.0250	2.50	ND	92.9	48-130	0.408	24	
o-Xylene	2.37	0.0250	2.50	ND	94.6	43-135	0.956	27	
p,m-Xylene	4.74	0.0500	5.00	ND	94.9	43-135	0.296	27	
Total Xylenes	7.11	0.0250	7.50	ND	94.8	43-135	0.515	27	
Surrogate: Bromofluorobenzene	0.490		0.500		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.458		0.500		91.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/11/2024 9:42:31AM

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 (2428010-BLK1) Prepared: 07/08/24 Analyzed: 07/10/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.485		0.500		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.461		0.500		92.2	70-130			

LCS (2428010-BS2) Prepared: 07/08/24 Analyzed: 07/10/24

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0		99.4	70-130			
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.469		0.500		93.7	70-130			

Matrix Spike (2428010-MS2) Source: E407024-04 Prepared: 07/08/24 Analyzed: 07/10/24

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.471		0.500		94.2	70-130			

Matrix Spike Dup (2428010-MSD2) Source: E407024-04 Prepared: 07/08/24 Analyzed: 07/10/24

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0	ND	96.1	70-130	1.33	20	
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		92.0	70-130			
Surrogate: Toluene-d8	0.481		0.500		96.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/11/2024 9:42:31AM

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 (2428006-BLK1)					Prepared: 07/08/24 Analyzed: 07/08/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.8		50.0		118	50-200			

LCS (2428006-BS1)					Prepared: 07/08/24 Analyzed: 07/08/24				
Diesel Range Organics (C10-C28)	278	25.0	250		111	38-132			
Surrogate: n-Nonane	53.9		50.0		108	50-200			

Matrix Spike (2428006-MS1)					Source: E407023-02		Prepared: 07/08/24 Analyzed: 07/08/24		
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132			
Surrogate: n-Nonane	53.7		50.0		107	50-200			

Matrix Spike Dup (2428006-MSD1)					Source: E407023-02		Prepared: 07/08/24 Analyzed: 07/08/24		
Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	38-132	3.41	20	
Surrogate: n-Nonane	55.9		50.0		112	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	7/11/2024 9:42:31AM

Anions by EPA 300.0/9056A

Analyst: DT

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 (2428011-BLK1)				Prepared: 07/08/24 Analyzed: 07/08/24					
Chloride	ND	20.0							
LCS (2428011-BS1)				Prepared: 07/08/24 Analyzed: 07/08/24					
Chloride	246	20.0	250		98.3	90-110			
Matrix Spike (2428011-MS1)				Source: E407022-03		Prepared: 07/08/24 Analyzed: 07/08/24			
Chloride	3180	40.0	250	2930	97.1	80-120			
Matrix Spike Dup (2428011-MSD1)				Source: E407022-03		Prepared: 07/08/24 Analyzed: 07/08/24			
Chloride	3630	40.0	250	2930	279	80-120	13.3	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	07/11/24 09:42

- 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
- DNR Did not react with the addition of acid or base.

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 1

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only		TAT			EPA Program					
Project: RDX 16 #008					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SOWA	
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 407023		1058-0007		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											State	
Phone: 832-541-7719					Email: jim.raley@dm.com											NM CO UT AZ TX	
Email: Devon-team@etechnv.com					WO: 21141253												
					Incident ID: nAPP2307930900												
Collected by: Edyte Konan																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRC/DRO/GRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300 0	86DOC NM	GDGC TX	Remarks			
11:00	07.01.24	S	1	SW01	1	0-4'						X					
11:30	07.01.24	S	1	SW02	2	0-4'						X					
12:00	07.01.24	S	1	SW03	3	0-2'						X					
12:30	07.01.24	S	1	SW04	4	0-4'						X					
7/02/2024																	
Additional Instructions:																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: EK																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only									
		07/02/24	6:00	Michelle Gonzales		07-02-24	0600	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									
Michelle Gonzales		07-02-24	1600	Andrew Musso		7/2/24	17:00										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C									
Andrew Musso		7/2/24	23:45	Alexa Michaels		7-3-24	10:00	4									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

Envirotech Analytical Laboratory

Printed: 7/8/2024 12:14:25PM

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:	07/03/24 10:00	Work Order ID:	E407023
Phone:	(539) 573-4018	Date Logged In:	07/03/24 14:51	Logged In By:	Alexa Michaels
Email:	devon-team@etechnv.com	Due Date:	07/11/24 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: Couier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? 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.

APPENDIX G

Correspondence & Notifications

Anna Byers

From: Joseph Hernandez
Sent: Friday, June 9, 2023 1:02 PM
To: Anna Byers
Subject: FW: WPX Site Sampling Update (5/22 - 5/26/2023)

From: Erick Herrera <erick@etechenv.com>
Sent: Wednesday, May 17, 2023 5:14 PM
To: OCD.Enviro@emnrd.nm.gov; blm_nm_cfo_spill@blm.gov
Cc: jim.raley@dmv.com; Devon-Team <Devon-Team@etechenv.com>
Subject: WPX Site Sampling Update (5/22 - 5/26/2023)

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following site between May 22 – May 26, 2023:

Site Name: RDX 16-#008

API: 30-015-39751

Incident Number: nAPP2307930900

Thank you,

Erick Herrera
Staff Geologist



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

Anna Byers

From: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Sent: Friday, June 2, 2023 9:52 AM
To: Erick Herrera; Enviro, OCD, EMNRD; blm_nm_cfo_spill@blm.gov
Cc: Raley, Jim; Devon-Team; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] WPX Sampling Update (6/5 - 6/9/2023)

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

Good morning,

Received.

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

Respectfully,

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



From: Erick Herrera <erick@etechenv.com>
Sent: Wednesday, May 31, 2023 3:32 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov
Cc: Raley, Jim <jim.raley@dmn.com>; Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] WPX Sampling Update (6/5 - 6/9/2023)

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 June 5 – June 9, 2023:

Site Name: RDU 61
API: 30-015-41980
Incident Number: NAB1631949226

Site Name: RDX 16-#008
API: 30-015-39751

Incident Number: nAPP2307930900

Thank you,

Erick Herrera
Staff Geologist



Work: (432) 305-6416

Cell: (281) 777-4152

Erick Herrera

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Tuesday, February 13, 2024 11:01 AM
To: Raley, Jim
Cc: Devon-Team; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD
Subject: WPX Energy Extension Request - RDX 16-8 (nAPP2307930900)

Some people who received this message don't often get email from robert.hamlet@emnrd.nm.gov. [Learn why this is important](#)

Jim,

OCD Permitting has been revamped recently and automatically defaults to 90 days for a Remediation Closure Report Extension, which this appears to be. An extension to **May 13th, 2024** is approved. Please include this e-mail correspondence in the Remediation Closure Report.

Regards,

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



From: Raley, Jim <Jim.Raley@dvn.com>
Sent: Monday, February 12, 2024 2:40 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] WPX Energy Extension Request - RDX 16-8 (nAPP2307930900)

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

Robert,

WPX Energy Permian, LLC (WPX) is requesting an extension to the current deadline for a report required in 19.15.29.12.B.(1) NMAC at the RDX 16-8 (Site) associated with the following Incident Number **nAPP2307930900**.

WPX has completed the work proposed in Remediation Work Plan approved by NMOCD on **November 14, 2023**. To provide enough time to review and compile the data and field summaries associated with **nAPP2307930900** and to submit a formal report for this incident, WPX requests a 30-day extension of the deadline to **March 13, 2024**.

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



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

QUESTIONS

Action 302176

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 302176
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2307930900
Incident Name	NAPP2307930900 RDX 16 #008 @ 30-015-39751
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-39751] RDX 16 #008

Location of Release Source	
Site Name	RDX 16 #008
Date Release Discovered	03/16/2023
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	4,250
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/18/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Gilbert Moreno with any questions at (432)305-6414
Please provide any information necessary for navigation to sampling site	From the intersection of Stateline & Whitehorn Rd, head east on Stateline Rd for approximately 2.33 mi. North approximately 2.57 mi. SE for 0.09 mi. North for 0.19 to entrance, NE for 0.03 mi. to Location (32.045295, -103.8810375)

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CONDITIONS

Action 302176

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 302176
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/10/2024

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QUESTIONS

Action 324561

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 324561
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2307930900
Incident Name	NAPP2307930900 RDX 16 #008 @ 30-015-39751
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-39751] RDX 16 #008

Location of Release Source	
Site Name	RDX 16 #008
Date Release Discovered	03/16/2023
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	4,250
What is the estimated number of samples that will be gathered	26
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/22/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Gilbert Moreno at 432-305-6414 with any questions
Please provide any information necessary for navigation to sampling site	From the intersection of Stateline & Whitehorn Rd, head east on Stateline Rd for approximately 2.33 mi. North approximately 2.57 mi. SE for 0.09 mi. North for 0.19 to entrance, NE for 0.03 mi. to well pad (32.045295, -103.8810375)

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CONDITIONS

Action 324561

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 324561
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jrale	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/19/2024

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QUESTIONS

Action 346538

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 346538
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2307930900
Incident Name	NAPP2307930900 RDX 16 #008 @ 30-015-39751
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-39751] RDX 16 #008

Location of Release Source	
Site Name	RDX 16 #008
Date Release Discovered	03/16/2023
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	2,350
What is the estimated number of samples that will be gathered	12
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/24/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Gilbert Moreno at 432-305-6414 with any questions
Please provide any information necessary for navigation to sampling site	From intersection of stateline rd & whitehorn rd, go E on stateline rd for 2.33 mi, N for 2.57 mi, SE for 0.09 mi, N for 0.19 mi to entrance, NE for 0.03 mi to location (32.0454295,-103.8810375)

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CONDITIONS

Action 346538

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 346538
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/22/2024

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QUESTIONS

Action 356913

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 356913
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2307930900
Incident Name	NAPP2307930900 RDX 16 #008 @ 30-015-39751
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-39751] RDX 16 #008

Location of Release Source	
Site Name	RDX 16 #008
Date Release Discovered	03/16/2023
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	4,250
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/28/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions
Please provide any information necessary for navigation to sampling site	From intersection of State Line rd & Whitehorn rd, go E on State Line rd for 2.33 mi, N for 2.57 mi, SE for 0.09 mi, N for 0.19 mi to entrance, NE for 0.03 mi to location (32.0454295, -103.8810375)

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CONDITIONS

Action 356913

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 356913
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	6/24/2024

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Santa Fe, NM 87505

QUESTIONS

Action 359227

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 359227
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2307930900
Incident Name	NAPP2307930900 RDX 16 #008 @ 30-015-39751
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-39751] RDX 16 #008

Location of Release Source	
Site Name	RDX 16 #008
Date Release Discovered	03/16/2023
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	4,250
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/01/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions
Please provide any information necessary for navigation to sampling site	From intersection of State Line rd & Whitehorn rd, go E on State Line rd for 2.33 mi, N for 2.57 mi, SE for 0.09 mi, N for 0.19 mi to entrance, NE for 0.03 mi to location (32.0454295, -103.8810375)

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

CONDITIONS

Action 359227

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 359227
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	6/27/2024

Erick Herrera

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Wednesday, May 8, 2024 10:45 AM
To: Raley, Jim
Cc: Devon-Team; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD
Subject: WPX Energy - Extension Request - RDX 16-8 (nAPP2307930900)

Some people who received this message don't often get email from robert.hamlet@emnrd.nm.gov. [Learn why this is important](#)

RE: Incident #NAPP2307930900

Jim,

Your request for a 90 day extension to **August 6th, 2024** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

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



From: Raley, Jim <Jim.Raley@dvn.com>
Sent: Wednesday, May 8, 2024 9:07 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] WPX Energy Extension Request - RDX 16-8 (nAPP2307930900)

Robert,

We are currently attempting to complete remediation of incident nAPP2307930900. It will require excavation by hand of a large quantity of soils in the tank battery. We recently secured a crew to complete this work and expect to have this work completed shortly.

With this being the case, WPX respectfully asks for a 90 day extension on incident nAPP2307930900 in order to complete.

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



From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Tuesday, February 13, 2024 10:01 AM
To: Raley, Jim <Jim.Raley@dvn.com>
Cc: Devon-Team <Devon-Team@etechnv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: [EXTERNAL] WPX Energy Extension Request - RDX 16-8 (nAPP2307930900)

Jim,

OCD Permitting has been revamped recently and automatically defaults to 90 days for a Remediation Closure Report Extension, which this appears to be. An extension to **May 13th, 2024** is approved. Please include this e-mail correspondence in the Remediation Closure Report.

Regards,

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



From: Raley, Jim <Jim.Raley@dvn.com>
Sent: Monday, February 12, 2024 2:40 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechnv.com>
Subject: [EXTERNAL] WPX Energy Extension Request - RDX 16-8 (nAPP2307930900)

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

Robert,
WPX Energy Permian, LLC (WPX) is requesting an extension to the current deadline for a report required in 19.15.29.12.B.(1) NMAC at the RDX 16-8 (Site) associated with the following Incident Number **nAPP2307930900**.

WPX has completed the work proposed in Remediation Work Plan approved by NMOCD on **November 14, 2023**. To provide enough time to review and compile the data and field summaries associated with **nAPP2307930900** and to submit a formal report for this incident, WPX requests a 30-day extension of the deadline to **March 13, 2024**.

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



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

APPENDIX H

Archived Reports

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2307930900
District RP	
Facility ID	
Application ID	

Responsible Party

Responsible Party WPX Energy Permain, LLC	OGRID 246289
Contact Name Jim Raley	Contact Telephone 575-689-7597
Contact email Jim.Raley@dmn.com	Incident # (assigned by OCD) nAPP2307930900
Contact mailing address 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.0457649 Longitude -103.88517
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: RDX 16 #008	Site Type Oil Well
Date Release Discovered: 3/16/2023	API# (if applicable) 30-015-39751

Unit Letter	Section	Township	Range	County
G	16	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	Volume Released (bbls) 4	Volume Recovered (bbls) 2
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 30	Volume Recovered (bbls) 25
	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: Valve to head switch was closed, which did not allow the water transfer pump to activate. This caused a tank overflow to secondary containment.

bbl estimate =

saturated soil volume (ft³)

4.21 (bbl equivalent)

* estimated soil porosity (%) + recovered fluids (bbl)


State of New Mexico
Oil Conservation Division

Incident ID	nAPP2307930900
District RP	
Facility ID	
Application ID	

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? Volume exceeded 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email to Mike Bratcher and Rosa Romero on 3/17/2023	

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>3/20/2023</u>	
email: <u>jim.raley@dvn.com</u> Telephone: <u>575-689-7597</u>	
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u> Date: <u>03/20/2023</u>	

Incident ID	nAPP2307930900
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	<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 checked="" type="checkbox"/> Yes <input 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.
<input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
<input checked="" type="checkbox"/> Field data
<input checked="" type="checkbox"/> Data table of soil contaminant concentration data
<input checked="" type="checkbox"/> Depth to water determination
<input checked="" type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
<input checked="" type="checkbox"/> Boring or excavation logs
<input checked="" type="checkbox"/> Photographs including date and GIS information
<input checked="" type="checkbox"/> Topographic/Aerial maps
<input checked="" type="checkbox"/> Laboratory data including chain of custody

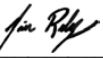
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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

Page 4

Incident ID	nAPP2307930900
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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: 6/13/2023
email: Jim.Raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: Jocelyn Harimon Date: 06/13/2023

Incident ID	nAPP2307930900
District RP	
Facility ID	
Application ID	

Remediation Plan

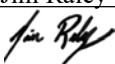
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

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

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

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

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

Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 6/13/2023
email: Jim.Raley@dm.com Telephone: 575-689-7597

OCD Only

Received by: Jocelyn Harimon Date: 06/13/2023

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____



REMEDIATION WORK PLAN

RDX 16 #008

Eddy County, New Mexico

Incident Number nAPP2307930900

Prepared for:

WPX Energy Permian, LLC

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 Remediation Work Plan (RWP) detailing site assessment and delineation soil sampling activities at the RDX 16 #008 ((Site) (**Figure 1** in **Appendix A**)) associated with an inadvertent release of crude oil and produced water. Based on field observations, field screening activities and review of the laboratory analytical results from delineation soil sampling activities at the Site, WPX proposes this RWP which summarizes corrective actions and details remediation objectives to rectify environmental impacts.

SITE LOCATION AND RELEASE BACKGROUND

On March 16, 2023, a storage tank overflow resulted in approximately 4 barrels (bbls) of crude oil and 30 bbls of produced water to be released within the tank battery containment earthen berm. Vacuum trucks were immediately dispatched and recovered approximately 2 bbls of crude oil and 25 bbls of produced water. 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), which was received by the NMOCD on March 20, 2023, and was subsequently assigned Incident Number nAPP2307930900. Shortly after the incident, the release area was mapped based on field observations, hereafter referred to as the Area of Concern (AOC) and presented on **Figure 2** in **Appendix A**.

The production well (API 30-015-39751) for this Site is located in Unit G, Section 16, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.0457649°, -103.88517°) as provided on the initial Form C-141 and is associated with oil and gas exploration and production operations on State Land.

The storage tanks for the well, where the release occurred, is located east of the production well in Unit H, Section 16, Township 26 South, Range 30 East, in Eddy County New Mexico (32.04507°, -103.88068°). The updated legals and coordinates are provided on the Final Form C-141.

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.

Based on the initial desktop review, the Site appears to be within proximity of three potential receptors. The closest continuously flowing or significant water course to the Site appears to be an ephemeral stream identified on the NMOCD Oil and Gas Map online database and on the United States Geological Survey (USGS) 7.5-minute quadrangle map, located to the north within 300 feet of the Site. Forested/Shrub Riparian Wetlands were identified on the United States Fish and Wildlife Service (USFWS) online database, National Wetland Inventory (Wetland Mapper), located to the east and west



within 300 feet of the Site. The Site is located within a 100-year floodplain, as defined by the Federal Emergency Management Agency's (FEMA) National Flood Hazard Layer (NFHL) online database.

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs), based off a nearby soil boring performed by Talon LPE on behalf of WPX, located approximately ½ mile south of the Site on the RDX 16-25 well pad. Soil boring (MW-1) was advanced on December 16, 2020, via truck mounted drill rig equipped with 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. Following the observation period, the boring was plugged and abandoned according to the appropriate regulations. The well log for the referenced soil boring is provided in **Appendix B**.

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	600 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	100 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

DELINEATION SOIL SAMPLING ACTIVITIES

On May 22, 2023, Etech evaluated the Site based on information provided by WPX and conducted delineation activities to assess the AOC. Six delineation locations (BH01 through BH06) were advanced via hand auger and/or backhoe within and around the AOC, which were driven by field screening soil samples for volatile organic hydrocarbons using a photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A minimum of two soil samples were collected per sampling location, representing the highest observed field screening concentrations and the greatest depth representing the characterization of impacts. Field screening results and soil descriptions were denoted on soil sampling logs, which is included as **Attachment C**. The location of the delineation soil samples is shown in **Figure 2 in Appendix A**. Photographic documentation during delineation activities is included in **Attachment 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 Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of COCs.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for soil samples assisting with lateral delineation (BH02 through BH05) were compliant with Site Closure Criteria.

Laboratory analytical results for the remaining samples collected within the AOC (BH01 and BH06) indicated that at least one of the COCs exceeded the Site Closure Criteria. Identified chloride impacts are characterized by concentrations ranging from 666 mg/kg to 5,290 mg/kg. Elevated TPH and BTEX



concentrations were only present at 0.5 feet bgs at BH06 and decreased to concentrations below Site Closure Criteria at 4 feet bgs.

Laboratory analytical results are summarized in Table 1 as **Attachment E**, and the complete laboratory reports with chain-of-custody documentation is included as **Attachment F**.

PROPOSED REMEDIATION WORK PLAN

Based on the delineation soil sampling results, the following conclusions regarding the release are presented:

- Laboratory analytical results for soil samples collected from BH01 within the AOC indicated elevated chloride concentrations (666 mg/kg and 5,290 mg/kg) exist up to 12 feet bgs. TPH concentrations only appear to exist in the proximity of sample location BH06, which dramatically decreased from 2,590 mg/kg at 0.5 feet bgs to 91.2 mg/kg at 4 feet bgs. Further investigation is necessary to determine the vertical extent of residual impacts associated with BH01;
- Laboratory analytical results for soil samples collected from BH02 through BH05 indicated COC concentrations were below the Site Closure Criteria, which will assist with defining the lateral extent of impacts associated with the inadvertent release.

Based on the conclusions drawn above, WPX proposes the following remedial corrective actions:

- WPX proposes to continue advancement of BH01 to investigate the vertical extent of the AOC via mechanical equipment (**Figure 2** in **Appendix A**). Soil samples will be collected at a maximum frequency of 5-foot intervals and field screened for volatile organic compounds and chloride as previously described. Soil observations and field screening results for each delineation soil sample will be recorded on soil sampling logs. Soil sample locations will be mapped using a handheld GPS unit.
- WPX proposes to attempt advancement of lateral delineation boreholes BH02 through BH05 to match the total depth of BH01 to confirm the horizontal extent of impacts. Soil samples will be collected from each delineation location at a maximum frequency of 5-foot intervals and field screened for volatile organic compounds and chloride as previously described. Continued soil observations and field screening results for each delineation soil sample will be recorded on soil sampling logs. Soil sample locations will be mapped using a handheld GPS unit.
- A minimum of two soil samples will be collected from each delineation point location, representing the highest field screened concentration(s) and the greatest depth, and submitted to an accredited lab for analysis of BTEX, TPH and Chloride.
- Upon receipt and review of delineation soil laboratory results, WPX will determine the appropriate measure of corrective actions that will include:
 - Documenting and estimating an amount of impacted soil to be left in place at the Site with a subsequent Deferral Report detailing remediation efforts and soil sampling activities or
 - Preparing a RWP detailing the next course of remedial actions to address the presence of soil impacts at the Site, based off an estimated lateral and vertical extent of impacted soil from assessment and delineation activities.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or joseph@etechenv.com or Anna Byers at (575) 200-6754 or anna@etechenv.com.



Sincerely,

eTECH Environmental and Safety Solutions, Inc.

A handwritten signature in black ink that reads 'Anna Byers'.

Anna Byers
Senior Geologist

A handwritten signature in black ink that reads 'Joseph S. Hernandez'.

Joseph S. Hernandez
Senior Managing Geologist

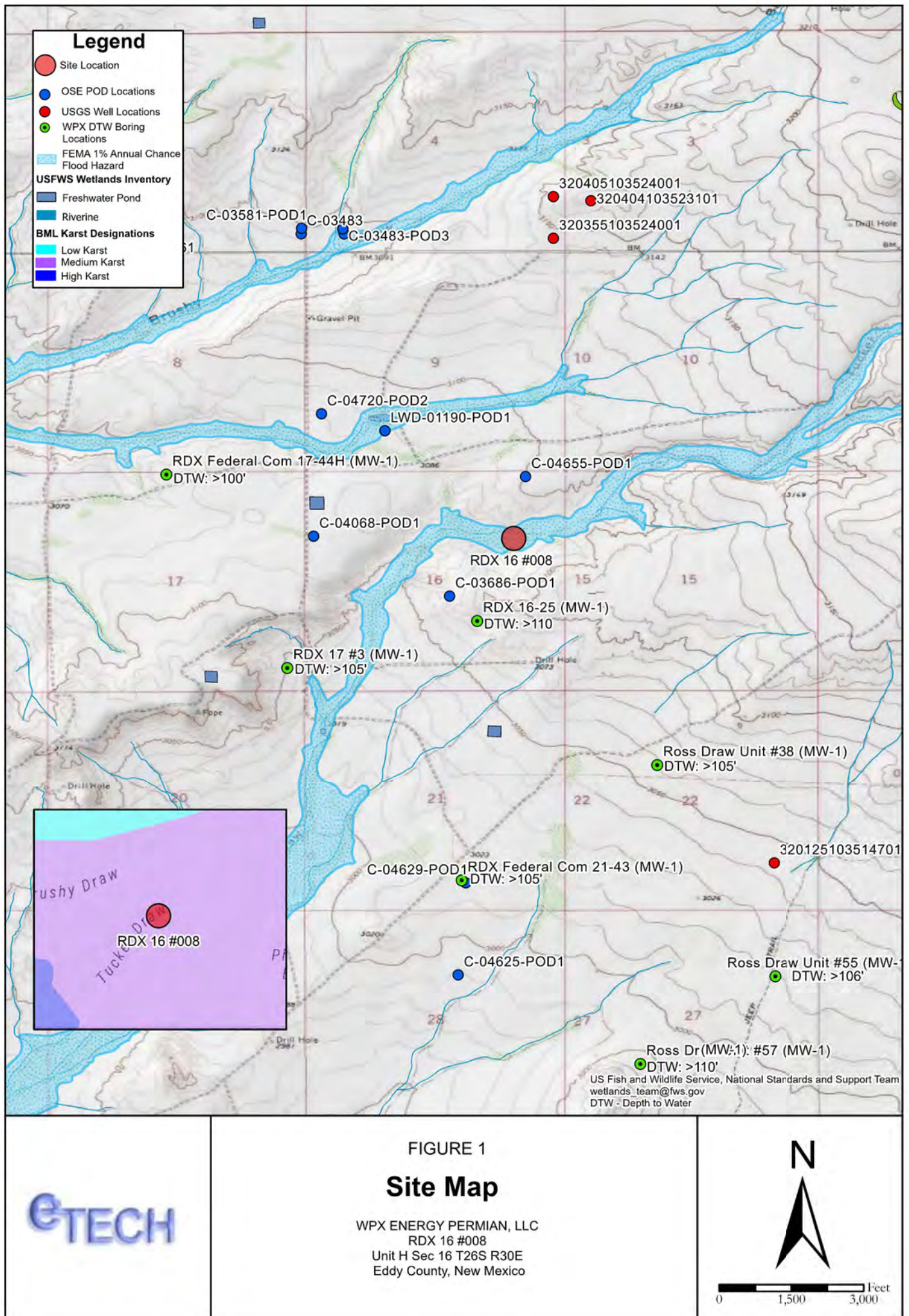
cc: Jim Raley, Devon
New Mexico Oil Conservation Division
State Land Office

Appendices:

- Appendix A** Figure 1: Site Map
Figure 2: Delineation Soil Sample Locations
- Appendix B** Referenced Well Records
- Appendix C** Lithologic Sampling Logs
- Appendix D** Photographic Log
- Appendix E** Tables
- Appendix F** Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix G** NMOCD Correspondence

APPENDIX A


Figures





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

Lithologic Sampling Logs



Sample Name: BH01 Date: 05/22/2023

Site Name: RDX 16 #008

Incident Number: nAPP2307930900

Job Number: 18138

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: Edyte Konan

Method: Hand Auger

Site Coordinates: 32.644579, -103.448392

Hole Diameter: 4 inches

Total Depth: 12 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	CCHE	0-1' bgs: Pad surface CALICHE, dry, no staining, no odor
Dry	4,060	0.0	No	BH01	0.5			1-2' bgs: SAND, dry, brown, well graded with silt and some small gravel, very fine to coarse grained, no staining, no odor
Dry	656	0.0	No		1	1	SW-SM	
								2-12' bgs: SAND, dry, light brown, poorly graded with small gravel, very fine to fine grained, no staining, no odor
Dry	551	0.0	No		2	2	SP	
Dry	656	0.0	No		3	3		
Dry	1,046	0.0	No	BH01	4	4		
Dry	1,696	0.0	No		5	5		
Dry	1,208	0.0	No		6	6		
Dry	656	0.0	No	BH01	7	7		
Dry	904	0.0	No		8	8		
Dry	972	0.0	No		9	9		
BH01 continued on following page (10' through 12')								



Sample Name: BH01 Date: 05/22/2023

Site Name: RDX 16 #008

Incident Number: nAPP2307930900

Job Number: 18138

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: Edyte Konan

Method: Hand Auger

Site Coordinates: 32.644579, -103.448392

Hole Diameter: 4 inches

Total Depth: 12 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	972	0.0	No		10	10		BH01 continued...
Dry	904	0.0	No		11	11	SP	2-12' bgs: SAND, dry, light brown, poorly graded with small gravel, very fine to fine grained, no staining, no odor
Dry	972	0.0	No	BH01	12	12		

Total Depth: 12 feet bgs



Sample Name: BH02 Date: 05/22/2023

Site Name: RDX 16 #008

Incident Number: nAPP2307930900

Job Number: 18138

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: Edyte Konan

Method: Back Hoe

Site Coordinates: 32.644579, -103.448392

Hole Diameter: n/a

Total Depth: 4 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	CCHE	0-1' bgs: Pad surface CALICHE, dry, no staining, no odor
Dry	0	0.0	No	BH02	0.5			1-4' bgs: SAND, dry, light brown, poorly graded, very fine to fine grained, no staining, no odor
Dry	0	0.0	No		1	1	SP	
Dry	0	0.0	No		2	2		
Dry	0	0.0	No		3	3		
Dry	<120	0.0	No	BH02	4	4		

Total Depth: 4 feet bgs



Sample Name: BH03

Date: 05/22/2023

Site Name: RDX 16 #008

Incident Number: nAPP2307930900

Job Number: 18138

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: Edyte Konan

Method: Back Hoe

Site Coordinates: 32.644579, -103.448392

Hole Diameter: n/a

Total Depth: 4 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	236	0.0	No	BH03	0.5	0	CCHE	0-1' bgs: Pad surface CALICHE, dry, no staining, no odor
Dry	236	0.0	No		1	1	SP	1-4' bgs: SAND, dry, light brown, poorly graded, very fine to fine grained, no staining, no odor
Dry	156	0.0	No		2	2		
Dry	156	0.0	No		3	3		
Dry	<120	0.0	No	BH03	4	4		

Total Depth: 4 feet bgs



Sample Name: BH04	Date: 05/22/2023
Site Name: RDX 16 #008	
Incident Number: nAPP2307930900	
Job Number: 18138	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: Edyte Konan	Method: Hand Auger
------------------------	--------------------

Site Coordinates: 32.644579, -103.448392	Hole Diameter: 4 inches	Total Depth: 4 feet
--	-------------------------	---------------------

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	236	0.0	No	BH04	0.5	0	SP	0-4 ft bgs: SAND, dry, light brown, poorly graded, very fine to fine, no staining, no odor
Dry	236	0.0	No		1	1		
Dry	156	0.0	No		2	2		
Dry	156	0.0	No		3	3		
Dry	<120	0.0	No	BH04	4	4		

Total Depth: 4 feet bgs



Sample Name: BH05 Date: 05/22/2023

Site Name: RDX 16 #008

Incident Number: nAPP2307930900

Job Number: 18138

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: Edyte Konan

Method: Hand Auger

Site Coordinates: 32.644579, -103.448392

Hole Diameter: 4 inches

Total Depth: 4 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<120	0.0	No	BH05	0.5	0	CCHE	0-1' bgs: Pad surface CALICHE, dry, no staining, no odor
Dry	132	0.0	No		1	1	SP	1-4' bgs: SAND, dry, light brown, poorly graded, very fine to fine grained, no staining, no odor
Dry	132	0.0	No		2	2		
Dry	<120	0.0	No		3	3		
Dry	<120	0.0	No	BH05	4	4		

Total Depth: 4 feet bgs



Sample Name: BH06 Date: 05/22/2023

Site Name: RDX 16 #008

Incident Number: nAPP2307930900

Job Number: 18138

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: Edyte Konan

Method: Hand Auger

Site Coordinates: 32.644579, -103.448392

Hole Diameter: 4 inches

Total Depth: 7 feet

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	CCHE	0-1' bgs: Pad surface CALICHE, dry, stained, no odor
Dry	5,592	170.1	Yes	BH06	0.5			1-2' ft bgs: SAND, dry, brown, well graded with silt and some small gravel, very fine to coarse, no staining, no odor
Dry	268	14.5	No		1	1	SW-SM	
								2-7' ft bgs: Sand, dry, light brown, poorly graded, very fine to fine, no staining, no odor
Dry	200	31.3	No		2	2	SP	
Dry	<120	8.4	No		3	3		
Dry	156	8.0	No	BH06	4	4		
Dry	<120	10.5	No		5	5		
Dry	<120	30.1	No		6	6		
Dry	<120	32.3	No		7	7		

Total Depth: 7 feet bgs

APPENDIX D

Photographic Log

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

RDX 16 #008

Incident Number nAPP2307930900

**Photograph 1****Date: 05/22/2023**

Description: Delineation activities, southern view of BH01 advancement.

**Photograph 2****Date: 05/22/2023**

Description: Delineation activities, southwestern view of BH06 advancement.

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

RDX 16 #008

Incident Number nAPP2307930900

**Photograph 3****Date: 05/22/2023**

Description: Delineation activities, eastern view of BH03 advancement.

**Photograph 4****Date: 05/22/2023**

Description: Delineation activities, northern view of BH02 advancement.

APPENDIX E

Tables



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
RDX 16 #008
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)	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	100	600
Delineation Soil Samples - nAPP2307930900									
BH01	05/22/2023	0.5	<0.0250	<0.0250	<20.0	32.7	<50.0	32.7	5,290
BH01	05/22/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	1,510
BH01	05/22/2023	7	<0.0250	<0.0250	<20.0	<50.0	<50.0	<50.0	666
BH01	05/22/2023	12	<0.0250	<0.0250	<20.0	37.4	<50.0	37.4	861
BH02	05/22/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	278
BH02	05/22/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	34.1
BH03	05/22/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	161
BH03	05/22/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	21.8
BH04	05/22/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	48.9
BH04	05/22/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	49.6
BH05	05/22/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH05	05/22/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<20.0
BH06	05/22/2023	0.5	<0.0250	0.2664	<20.0	611	255	866	2,590
BH06	05/22/2023	4	<0.0250	<0.0250	<20.0	34.4	<50.0	34.4	91.2

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

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 16 #008

Work Order: E305150

Job Number: 01058-0007

Received: 5/25/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/30/23

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: 5/30/23



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16 #008
Workorder: E305150
Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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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Cell: 775-287-1762
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Raina Schwanz
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH06 0.5'	E305150-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.
BH06 4'	E305150-02A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
5/30/2023 5:23:53PM

BH06 0.5'

E305150-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321061
Benzene	ND	0.0250	1	05/25/23	05/27/23	
Ethylbenzene	0.0454	0.0250	1	05/25/23	05/27/23	
Toluene	ND	0.0250	1	05/25/23	05/27/23	
o-Xylene	0.0636	0.0250	1	05/25/23	05/27/23	
p,m-Xylene	0.157	0.0500	1	05/25/23	05/27/23	
Total Xylenes	0.221	0.0250	1	05/25/23	05/27/23	
Surrogate: 4-Bromochlorobenzene-PID	109 %	70-130		05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321061
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/25/23	05/27/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.8 %	70-130		05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2321057
Diesel Range Organics (C10-C28)	611	25.0	1	05/25/23	05/26/23	
Oil Range Organics (C28-C36)	255	50.0	1	05/25/23	05/26/23	
Surrogate: n-Nonane	124 %	50-200		05/25/23	05/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2321082
Chloride	2590	20.0	1	05/26/23	05/27/23	



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
5/30/2023 5:23:53PM

BH06 4'

E305150-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321061	
Benzene	ND	0.0250	1	05/25/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/25/23	05/27/23	
Toluene	ND	0.0250	1	05/25/23	05/27/23	
o-Xylene	ND	0.0250	1	05/25/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/25/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/25/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/25/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.3 %	70-130	05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2321057	
Diesel Range Organics (C10-C28)	34.4	25.0	1	05/25/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/25/23	05/26/23	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	05/25/23	05/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2321082	
Chloride	91.2	20.0	1	05/26/23	05/27/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:23:53PM

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 (2321061-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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	7.95		8.00		99.4	70-130			

LCS (2321061-BS1) Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.31	0.0250	5.00		86.2	70-130			
Ethylbenzene	4.50	0.0250	5.00		90.0	70-130			
Toluene	4.65	0.0250	5.00		93.0	70-130			
o-Xylene	4.75	0.0250	5.00		95.0	70-130			
p,m-Xylene	9.32	0.0500	10.0		93.2	70-130			
Total Xylenes	14.1	0.0250	15.0		93.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.93		8.00		99.2	70-130			

Matrix Spike (2321061-MS1) Source: E305149-03 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.83	0.0250	5.00	ND	96.7	54-133			
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133			
Toluene	5.22	0.0250	5.00	ND	104	61-130			
o-Xylene	5.33	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.8	0.0250	15.0	ND	105	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.04		8.00		101	70-130			

Matrix Spike Dup (2321061-MSD1) Source: E305149-03 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.44	0.0250	5.00	ND	88.8	54-133	8.51	20	
Ethylbenzene	4.63	0.0250	5.00	ND	92.6	61-133	8.90	20	
Toluene	4.78	0.0250	5.00	ND	95.6	61-130	8.78	20	
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131	8.62	20	
p,m-Xylene	9.58	0.0500	10.0	ND	95.8	63-131	8.86	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.4	63-131	8.78	20	
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:23:53PM

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 (2321061-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			

LCS (2321061-BS2) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.1	70-130			

Matrix Spike (2321061-MS2) Source: E305149-03 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			

Matrix Spike Dup (2321061-MSD2) Source: E305149-03 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	40.9	20.0	50.0	ND	81.8	70-130	12.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.02		8.00		75.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:23:53PM

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 (2321057-BLK1)					Prepared: 05/25/23 Analyzed: 05/25/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.8		50.0		114	50-200			

LCS (2321057-BS1)					Prepared: 05/25/23 Analyzed: 05/25/23				
Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			

Matrix Spike (2321057-MS1)					Source: E305146-01		Prepared: 05/25/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	289	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	50.5		50.0		101	50-200			

Matrix Spike Dup (2321057-MSD1)					Source: E305146-01		Prepared: 05/25/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	285	25.0	250	ND	114	38-132	1.30	20	
Surrogate: n-Nonane	52.0		50.0		104	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:23:53PM

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 (2321082-BLK1)				Prepared: 05/26/23 Analyzed: 05/26/23					
Chloride	ND	20.0							
LCS (2321082-BS1)				Prepared: 05/26/23 Analyzed: 05/26/23					
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2321082-MS1)				Source: E305149-01		Prepared: 05/26/23 Analyzed: 05/26/23			
Chloride	272	20.0	250	21.8	99.9	80-120			
Matrix Spike Dup (2321082-MSD1)				Source: E305149-01		Prepared: 05/26/23 Analyzed: 05/26/23			
Chloride	290	20.0	250	21.8	107	80-120	6.42	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:23

- 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 16 #008	Attention: Jim Raley	Lab WO#	1D 2D 3D	CWA SDWA
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.	E 305150	5 day TAT	
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	Job Number		RCRA
City, State, Zip: Odessa, TX, 79765	Phone: 575-885-7502	Analysis and Method		
Phone: 432-305-6415	Email: jim.raley@dmv.com			
Email: Devon-team@etechnv.com	WO: 21141253			
Collected by: Edyte Konan	Incident ID:			

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
13:00	5/22/2023	S	1	BH06	1	0.5'						X		
13:20	5/22/2023	S	1	BH06	2	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) Edyte Konan	Date 05/24/23	Time 10:30	Received by: (Signature) Michelle R. Gault	Date 5/24/23	Time 10:30	Lab Use Only
Relinquished by: (Signature) Michelle R. Gault	Date 5/24/23	Time 1:15	Received by: (Signature) Andrew Messo	Date 5/24/23	Time 1:30	Received on ice: (Y) / N
Relinquished by: (Signature) Andrew Messo	Date 5/24/23	Time 2:40	Received by: (Signature) Cathy Mann	Date 5/25/23	Time 8:20	T1 T2 T3
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						AVG Temp °C 4

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: 5/26/2023 1:57:24PM

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:	05/25/23 08:20	Work Order ID:	E305150
Phone:	(539) 573-4018	Date Logged In:	05/24/23 16:19	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/01/23 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

Page 1 of 1

Client: WPX Energy Permian LLC.					Bill To		Lab Use Only				TAT				EPA Program				
Project: RDX 16 #008					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 305150		D1058-0007					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: 432-305-6415					Email: jim.raley@dnv.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WO: 21141253														
Collected by: Edyte Konan					Incident ID: NAPP2301930900														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											Remarks			
13:00	5/22/2023	S	1	BH06	1	0.5'							X			Added incident			
13:20	5/22/2023	S	1	BH06	2	4'							X			# to COC per Gilbert. 5/26/23 CM			

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 5 °C on subsequent days.

Relinquished by: (Signature) Edyte Konan	Date 05/24/23	Time 10:30	Received by: (Signature) Michelle R. Gault	Date 5-24-23	Time 10:30	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
Relinquished by: (Signature) Michelle R. Gault	Date 5-24-23	Time 1:15	Received by: (Signature) Andrew Messo	Date 5-24-23	Time 1:30	
Relinquished by: (Signature) Andrew Messo	Date 5-24-23	Time 2:40	Received by: (Signature) Cathy Mon	Date 5/25/23	Time 8:20	

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E305151

Job Number: 01058-0007

Received: 5/25/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/30/23

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: 5/30/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E305151
Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Rayny Hagan
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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 0.5'	E305151-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.
BH04 4'	E305151-02A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
5/30/2023 5:17:21PM

BH04 0.5'

E305151-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321061	
Benzene	ND	0.0250	1	05/25/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/25/23	05/27/23	
Toluene	ND	0.0250	1	05/25/23	05/27/23	
o-Xylene	ND	0.0250	1	05/25/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/25/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/25/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	101 %	70-130		05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/25/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2321057	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/25/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/25/23	05/26/23	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		05/25/23	05/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2321082	
Chloride	48.9	20.0	1	05/26/23	05/27/23	



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
5/30/2023 5:17:21PM

BH04 4'

E305151-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321061	
Benzene	ND	0.0250	1	05/25/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/25/23	05/27/23	
Toluene	ND	0.0250	1	05/25/23	05/27/23	
o-Xylene	ND	0.0250	1	05/25/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/25/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/25/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/25/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.7 %	70-130	05/25/23	05/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2321057	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/25/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/25/23	05/26/23	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	05/25/23	05/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2321082	
Chloride	49.6	20.0	1	05/26/23	05/27/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:17:21PM

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 (2321061-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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	7.95		8.00		99.4	70-130			

LCS (2321061-BS1) Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.31	0.0250	5.00		86.2	70-130			
Ethylbenzene	4.50	0.0250	5.00		90.0	70-130			
Toluene	4.65	0.0250	5.00		93.0	70-130			
o-Xylene	4.75	0.0250	5.00		95.0	70-130			
p,m-Xylene	9.32	0.0500	10.0		93.2	70-130			
Total Xylenes	14.1	0.0250	15.0		93.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.93		8.00		99.2	70-130			

Matrix Spike (2321061-MS1) Source: E305149-03 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.83	0.0250	5.00	ND	96.7	54-133			
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133			
Toluene	5.22	0.0250	5.00	ND	104	61-130			
o-Xylene	5.33	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.8	0.0250	15.0	ND	105	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.04		8.00		101	70-130			

Matrix Spike Dup (2321061-MSD1) Source: E305149-03 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.44	0.0250	5.00	ND	88.8	54-133	8.51	20	
Ethylbenzene	4.63	0.0250	5.00	ND	92.6	61-133	8.90	20	
Toluene	4.78	0.0250	5.00	ND	95.6	61-130	8.78	20	
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131	8.62	20	
p,m-Xylene	9.58	0.0500	10.0	ND	95.8	63-131	8.86	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.4	63-131	8.78	20	
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:17:21PM

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 (2321061-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			

LCS (2321061-BS2) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.1	70-130			

Matrix Spike (2321061-MS2) Source: E305149-03 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			

Matrix Spike Dup (2321061-MSD2) Source: E305149-03 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	40.9	20.0	50.0	ND	81.8	70-130	12.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.02		8.00		75.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:17:21PM

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 (2321057-BLK1)					Prepared: 05/25/23 Analyzed: 05/25/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.8		50.0		114	50-200			

LCS (2321057-BS1)					Prepared: 05/25/23 Analyzed: 05/25/23				
Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			

Matrix Spike (2321057-MS1)					Source: E305146-01		Prepared: 05/25/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	289	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	50.5		50.0		101	50-200			

Matrix Spike Dup (2321057-MSD1)					Source: E305146-01		Prepared: 05/25/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	285	25.0	250	ND	114	38-132	1.30	20	
Surrogate: n-Nonane	52.0		50.0		104	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:17:21PM

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 (2321082-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	ND	20.0							
LCS (2321082-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2321082-MS1)					Source: E305149-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	272	20.0	250	21.8	99.9	80-120			
Matrix Spike Dup (2321082-MSD1)					Source: E305149-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	290	20.0	250	21.8	107	80-120	6.42	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:17

- 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 16 #008	Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.		E305151		01658-0067					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		(t.) O/DRO/ORO by 8021 8260 8010 300.0 NM TX									State			
Phone: 432-305-6415	Email: jim.raley@dvn.com														
Email: Devon-team@etechenv.com	WO: 21141253														
Collected by: Edyte Konan	Incident ID: nAPP2307930900														

[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) Edyta Konan	Date 05/24/23	Time 10:30	Received by: (Signature) Michelle Cappel	Date 5/24/23	Time 10:30	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) Michelle Cappel	Date 5-24-23	Time 16:15	Received by: (Signature) Andrea Russo	Date 5-24-23	Time 19:30	
Relinquished by: (Signature) Andrea Russo	Date 5-24-23	Time 24:00	Received by: (Signature) Cathy Mann	Date 5/25/23	Time 8:20	
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: 5/26/2023 1:58:43PM

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:	05/25/23 08:20	Work Order ID:	E305151
Phone:	(539) 573-4018	Date Logged In:	05/24/23 16:20	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/01/23 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 16 #008

Work Order: E305152

Job Number: 01058-007

Received: 5/25/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/30/23

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: 5/30/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E305152
Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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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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	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:18

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 0.5'	E305152-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.
BH05 4'	E305152-02A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220Project Name: RDX 16 #008
Project Number: 01058-007
Project Manager: Gilbert Moreno**Reported:**
5/30/2023 5:18:51PM

BH05 0.5'

E305152-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.6 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2321081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
<i>Surrogate: n-Nonane</i>						
	93.6 %	50-200		05/26/23	05/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2321082	
Chloride	ND	20.0	1	05/26/23	05/27/23	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220Project Name: RDX 16 #008
Project Number: 01058-007
Project Manager: Gilbert Moreno**Reported:**
5/30/2023 5:18:51PM

BH05 4'

E305152-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321067
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.6 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321081
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
<i>Surrogate: n-Nonane</i>						
	95.5 %	50-200		05/26/23	05/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2321082
Chloride	ND	20.0	1	05/26/23	05/27/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:18:51PM

Volatile Organics by EPA 8021B

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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	7.69		8.00		96.2	70-130			

LCS (2321067-BS1) Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.84	0.0250	5.00		96.7	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

Matrix Spike (2321067-MS1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.52	0.0250	5.00	ND	90.5	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.7	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2321067-MSD1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.10	0.0250	5.00	ND	81.9	54-133	9.94	20	
Ethylbenzene	4.34	0.0250	5.00	ND	86.7	61-133	9.63	20	
Toluene	4.39	0.0250	5.00	ND	87.9	61-130	9.60	20	
o-Xylene	4.43	0.0250	5.00	ND	88.6	63-131	10.1	20	
p,m-Xylene	8.83	0.0500	10.0	ND	88.3	63-131	9.41	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.4	63-131	9.66	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:18:51PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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

LCS (2321067-BS2) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

Matrix Spike (2321067-MS2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/27/23

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2321067-MSD2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:18:51PM

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 (2321081-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			

LCS (2321081-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			

Matrix Spike (2321081-MS1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	302	25.0	250	37.4	106	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			

Matrix Spike Dup (2321081-MSD1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	307	25.0	250	37.4	108	38-132	1.63	20	
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:18:51PM

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 (2321082-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	ND	20.0							
LCS (2321082-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2321082-MS1)					Source: E305149-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	272	20.0	250	21.8	99.9	80-120			
Matrix Spike Dup (2321082-MSD1)					Source: E305149-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	290	20.0	250	21.8	107	80-120	6.42	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:18

- 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 16 #008	Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.		E305152		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		(t.) D/DRO/ORO by 8021 8260 8010 300.0 NM TX												
Phone: 432-305-6415	Email: jim.raley@dvn.com										State				
Email: Devon-team@etechenv.com	WO: 21141253										NM	CO	UT	AZ	TX
Collected by: Edyte Konan	Incident ID:														

[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>Edeye Kanan</i>	Date 05/24/23	Time 10:30	Received by: (Signature) <i>Michelle Coughlin</i>	Date 5-24-23	Time 10:30	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 Coughlin</i>	Date 5-24-23	Time 1:15	Received by: (Signature) <i>Andrew Miso</i>	Date 5-24-23	Time 1:30	
Relinquished by: (Signature) <i>Andrew Miso</i>	Date 5-24-23	Time 2:40	Received by: (Signature) <i>Cathy Man</i>	Date 5/25/23	Time 8:20	
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: 5/26/2023 1:59:59PM

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:	05/25/23 08:20	Work Order ID:	E305152
Phone:	(539) 573-4018	Date Logged In:	05/25/23 08:27	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/01/23 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.



envirotech

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E305153

Job Number: 01058-0007

Received: 5/25/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/30/23

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: 5/30/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E305153
Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 0.5'	E305153-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.
BH03 4'	E305153-02A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:20:20PM

BH03 0.5'

E305153-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID	94.7 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.4 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2321081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
Surrogate: n-Nonane	91.7 %	50-200		05/26/23	05/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2321083	
Chloride	161	40.0	2	05/26/23	05/26/23	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:20:20PM

BH03 4'

E305153-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID	95.7 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.9 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
Surrogate: n-Nonane	91.9 %	50-200		05/26/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2321083	
Chloride	21.8	20.0	1	05/26/23	05/26/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:20:20PM

Volatile Organics by EPA 8021B

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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	7.69		8.00		96.2	70-130			

LCS (2321067-BS1) Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.84	0.0250	5.00		96.7	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

Matrix Spike (2321067-MS1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.52	0.0250	5.00	ND	90.5	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.7	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2321067-MSD1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.10	0.0250	5.00	ND	81.9	54-133	9.94	20	
Ethylbenzene	4.34	0.0250	5.00	ND	86.7	61-133	9.63	20	
Toluene	4.39	0.0250	5.00	ND	87.9	61-130	9.60	20	
o-Xylene	4.43	0.0250	5.00	ND	88.6	63-131	10.1	20	
p,m-Xylene	8.83	0.0500	10.0	ND	88.3	63-131	9.41	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.4	63-131	9.66	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:20:20PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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

LCS (2321067-BS2) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

Matrix Spike (2321067-MS2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/27/23

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2321067-MSD2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:20:20PM

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 (2321081-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			

LCS (2321081-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			

Matrix Spike (2321081-MS1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	302	25.0	250	37.4	106	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			

Matrix Spike Dup (2321081-MSD1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	307	25.0	250	37.4	108	38-132	1.63	20	
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:20:20PM

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 (2321083-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	ND	20.0							
LCS (2321083-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2321083-MS1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	419	40.0	250	161	103	80-120			
Matrix Spike Dup (2321083-MSD1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	424	40.0	250	161	105	80-120	1.25	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:20

- 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.



[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.

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) Edyta Konan	Date 05/24/23	Time 10:30	Received by: (Signature) Michelle Campese	Date 5-24-23	Time 1030	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished by: (Signature) Michelle Campese	Date 5-24-23	Time 1815	Received by: (Signature) Andrew Russo	Date 5-24-23	Time 1830	
Relinquished by: (Signature) Andrew Russo	Date 5-24-23	Time 2400	Received by: (Signature) Cath Man	Date 5/25/23	Time 8:20	T1 _____ T2 _____ T3 _____
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other				AVG Temp °C <u>4</u>		
				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: 5/26/2023 2:01:02PM

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:	05/25/23 08:20	Work Order ID:	E305153
Phone:	(539) 573-4018	Date Logged In:	05/25/23 08:29	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/01/23 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 16 #008

Work Order: E305154

Job Number: 01058-0007

Received: 5/25/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/30/23

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: 5/30/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E305154
Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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
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West Texas Midland/Odessa Area
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Technical Representative
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:25

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 0.5'	E305154-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.
BH02 4'	E305154-02A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
5/30/2023 5:25:21PM

BH02 0.5'

E305154-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.8 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2321081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
<i>Surrogate: n-Nonane</i>						
	92.0 %	50-200		05/26/23	05/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2321083	
Chloride	278	20.0	1	05/26/23	05/26/23	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported: 5/30/2023 5:25:21PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH02 4'

E305154-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.6 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2321081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
<i>Surrogate: n-Nonane</i>						
	93.1 %	50-200		05/26/23	05/26/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2321083	
Chloride	34.1	20.0	1	05/26/23	05/26/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:25:21PM

Volatile Organics by EPA 8021B

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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	7.69		8.00		96.2	70-130			

LCS (2321067-BS1) Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.84	0.0250	5.00		96.7	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

Matrix Spike (2321067-MS1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.52	0.0250	5.00	ND	90.5	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.7	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2321067-MSD1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.10	0.0250	5.00	ND	81.9	54-133	9.94	20	
Ethylbenzene	4.34	0.0250	5.00	ND	86.7	61-133	9.63	20	
Toluene	4.39	0.0250	5.00	ND	87.9	61-130	9.60	20	
o-Xylene	4.43	0.0250	5.00	ND	88.6	63-131	10.1	20	
p,m-Xylene	8.83	0.0500	10.0	ND	88.3	63-131	9.41	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.4	63-131	9.66	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:25:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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

LCS (2321067-BS2) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

Matrix Spike (2321067-MS2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/27/23

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2321067-MSD2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:25:21PM

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 (2321081-BLK1) Prepared: 05/26/23 Analyzed: 05/26/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			

LCS (2321081-BS1) Prepared: 05/26/23 Analyzed: 05/26/23

Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			

Matrix Spike (2321081-MS1) Source: E305155-01 Prepared: 05/26/23 Analyzed: 05/26/23

Diesel Range Organics (C10-C28)	302	25.0	250	37.4	106	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			

Matrix Spike Dup (2321081-MSD1) Source: E305155-01 Prepared: 05/26/23 Analyzed: 05/26/23

Diesel Range Organics (C10-C28)	307	25.0	250	37.4	108	38-132	1.63	20	
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:25:21PM

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 (2321083-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	ND	20.0							
LCS (2321083-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2321083-MS1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	419	40.0	250	161	103	80-120			
Matrix Spike Dup (2321083-MSD1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	424	40.0	250	161	105	80-120	1.25	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:25

- 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.



[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.						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) Edyta Konan		Date 05/24/23	Time 10:30	Received by: (Signature) Michelle Cangelosi		Date 5-24-23	Time 1030	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N			
Relinquished by: (Signature) Michelle Cangelosi		Date 5-24-23	Time 1815	Received by: (Signature) Andrew Mello		Date 5-24-23	Time 1830	T1 _____ T2 _____ T3 _____			
Relinquished by: (Signature) Andrew Mello		Date 5-24-23	Time 2400	Received by: (Signature) Cath Mann		Date 5/25/23	Time 8:20	AVG Temp °C <u>4</u>			
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: 5/26/2023 2:01:43PM

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:	05/25/23 08:20	Work Order ID:	E305154
Phone:	(539) 573-4018	Date Logged In:	05/25/23 08:30	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/01/23 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 16 #008

Work Order: E305155

Job Number: 01058-0007

Received: 5/25/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/30/23

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: 5/30/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E305155
Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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
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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
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Chain of Custody etc.	11

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:15

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 12'	E305155-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: RDX 16 #008 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 5/30/2023 5:15:06PM
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BH01 12'

E305155-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID	94.6 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.2 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321081	
Diesel Range Organics (C10-C28)	37.4	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
Surrogate: n-Nonane	87.8 %	50-200		05/26/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2321083	
Chloride	861	20.0	1	05/26/23	05/26/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:15:06PM

Volatile Organics by EPA 8021B

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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	7.69		8.00		96.2	70-130			

LCS (2321067-BS1) Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.84	0.0250	5.00		96.7	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

Matrix Spike (2321067-MS1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.52	0.0250	5.00	ND	90.5	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.7	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2321067-MSD1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.10	0.0250	5.00	ND	81.9	54-133	9.94	20	
Ethylbenzene	4.34	0.0250	5.00	ND	86.7	61-133	9.63	20	
Toluene	4.39	0.0250	5.00	ND	87.9	61-130	9.60	20	
o-Xylene	4.43	0.0250	5.00	ND	88.6	63-131	10.1	20	
p,m-Xylene	8.83	0.0500	10.0	ND	88.3	63-131	9.41	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.4	63-131	9.66	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:15:06PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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

LCS (2321067-BS2) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

Matrix Spike (2321067-MS2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/27/23

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2321067-MSD2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:15:06PM

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 (2321081-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			

LCS (2321081-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			

Matrix Spike (2321081-MS1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	302	25.0	250	37.4	106	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			

Matrix Spike Dup (2321081-MSD1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	307	25.0	250	37.4	108	38-132	1.63	20	
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/30/2023 5:15:06PM

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 (2321083-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	ND	20.0							
LCS (2321083-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2321083-MS1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	419	40.0	250	161	103	80-120			
Matrix Spike Dup (2321083-MSD1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	424	40.0	250	161	105	80-120	1.25	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/30/23 17:15

- 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 16 #008	Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA		SDWA		
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.		E305155		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		(L) D/DRO/DRO by 8021 8260 8010 300.0 NM TX									State			
Phone: 432-305-6415	Email: jim.raley@dvn.com											NM CO UT AZ TX			
Email: Devon-team@etechenv.com	WO: 21141253														
Collected by: Edyte Konan	Incident ID: nAPP2307930900														

[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.

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>Egyte Ronan</i>	Date 05/24/23	Time 10:30	Received by: (Signature) <i>Michelle Coughlin</i>	Date 5-24-23	Time 1030	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Coughlin</i>	Date 5-24-23	Time 1815	Received by: (Signature) <i>Andrew Messo</i>	Date 5-24-23	Time 1830	
Relinquished by: (Signature) <i>Andrew Messo</i>	Date 5-24-23	Time 2400	Received by: (Signature) <i>Anthony Mann</i>	Date 5/25/23	Time 8:20	

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: 5/26/2023 2:02:26PM

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:	05/25/23 08:20	Work Order ID:	E305155
Phone:	(539) 573-4018	Date Logged In:	05/25/23 08:31	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/01/23 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 16 #008

Work Order: E305156

Job Number: 01058-0007

Received: 5/25/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/2/23

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: 6/2/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E305156
Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	06/02/23 12:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 7'	E305156-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/2/2023 12:28:33PM

BH01 7'

E305156-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID	95.5 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.1 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321081	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/26/23	
Surrogate: n-Nonane	87.4 %	50-200		05/26/23	05/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2321083	
Chloride	666	20.0	1	05/26/23	05/26/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/2/2023 12:28:33PM

Volatile Organics by EPA 8021B

Analyst: SL

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 (2321067-BLK1)

Prepared: 05/25/23 Analyzed: 05/26/23

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	7.69		8.00		96.2	70-130			

LCS (2321067-BS1)

Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.84	0.0250	5.00		96.7	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

Matrix Spike (2321067-MS1)

Source: E305152-02

Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.52	0.0250	5.00	ND	90.5	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.7	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2321067-MSD1)

Source: E305152-02

Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.10	0.0250	5.00	ND	81.9	54-133	9.94	20	
Ethylbenzene	4.34	0.0250	5.00	ND	86.7	61-133	9.63	20	
Toluene	4.39	0.0250	5.00	ND	87.9	61-130	9.60	20	
o-Xylene	4.43	0.0250	5.00	ND	88.6	63-131	10.1	20	
p,m-Xylene	8.83	0.0500	10.0	ND	88.3	63-131	9.41	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.4	63-131	9.66	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/2/2023 12:28:33PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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

LCS (2321067-BS2) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

Matrix Spike (2321067-MS2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/27/23

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2321067-MSD2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/2/2023 12:28:33PM

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 (2321081-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			

LCS (2321081-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			

Matrix Spike (2321081-MS1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	302	25.0	250	37.4	106	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			

Matrix Spike Dup (2321081-MSD1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	307	25.0	250	37.4	108	38-132	1.63	20	
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/2/2023 12:28:33PM

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 (2321083-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	ND	20.0							
LCS (2321083-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2321083-MS1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	419	40.0	250	161	103	80-120			
Matrix Spike Dup (2321083-MSD1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	424	40.0	250	161	105	80-120	1.25	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	06/02/23 12:28

- 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 16 #008	Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA		SDWA	
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.		E305156		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		() D/DRO/DRO by 8021 8260 8010 300.0 NM TX					State						
Phone: 432-305-6415	Email: jim.raley@dv.com													
Email: Devon-team@etechnv.com	WO: 21141253													
Collected by: Edyte Konan	Incident ID: nAPP2307930900													

[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) Edyta Klonan	Date 05/21/23	Time 10:30	Received by: (Signature) Michelle Cuyler	Date 5-24-23	Time 1030	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / N
Relinquished by: (Signature) Michelle Cuyler	Date 5-24-23	Time 1815	Received by: (Signature) Andrew Muzzo	Date 5-24-23	Time 1830	
Relinquished by: (Signature) Andrew Muzzo	Date 5-24-23	Time 2400	Received by: (Signature) Cath Mares	Date 5/25/23	Time 8:20	T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other				Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA		

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: 5/26/2023 2:03:10PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	05/25/23 08:20	Work Order ID:	E305156
Phone:	(539) 573-4018	Date Logged In:	05/25/23 08:32	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/01/23 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 16 #008

Work Order: E305157

Job Number: 01058-0007

Received: 5/25/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/31/23

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: 5/31/23



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: RDX 16 #008
Workorder: E305157
Date Received: 5/25/2023 8:20:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/25/2023 8:20:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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
rainaschwanz@envirotech-inc.com

Alexa Michaels
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Office: 505-421-LABS(5227)

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Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported: 05/31/23 12:56
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
BH01 0.5'	E305157-01A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.
BH01 4'	E305157-02A	Soil	05/22/23	05/25/23	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/31/2023 12:56:56PM

BH01 0.5'

E305157-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
Surrogate: 4-Bromochlorobenzene-PID	96.0 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2321067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.8 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2321081	
Diesel Range Organics (C10-C28)	32.7	25.0	1	05/26/23	05/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/27/23	
Surrogate: n-Nonane	81.2 %	50-200		05/26/23	05/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2321083	
Chloride	5290	40.0	2	05/26/23	05/30/23	



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
5/31/2023 12:56:56PM

BH01 4'

E305157-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321067
Benzene	ND	0.0250	1	05/26/23	05/26/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/26/23	
Toluene	ND	0.0250	1	05/26/23	05/26/23	
o-Xylene	ND	0.0250	1	05/26/23	05/26/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/26/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.9 %	70-130		05/26/23	05/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2321081
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/23	05/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/23	05/27/23	
<i>Surrogate: n-Nonane</i>						
	87.6 %	50-200		05/26/23	05/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2321083
Chloride	1510	20.0	1	05/26/23	05/26/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/31/2023 12:56:56PM

Volatile Organics by EPA 8021B

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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	7.69		8.00		96.2	70-130			

LCS (2321067-BS1) Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.84	0.0250	5.00		96.7	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

Matrix Spike (2321067-MS1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.52	0.0250	5.00	ND	90.5	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.7	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2321067-MSD1) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Benzene	4.10	0.0250	5.00	ND	81.9	54-133	9.94	20	
Ethylbenzene	4.34	0.0250	5.00	ND	86.7	61-133	9.63	20	
Toluene	4.39	0.0250	5.00	ND	87.9	61-130	9.60	20	
o-Xylene	4.43	0.0250	5.00	ND	88.6	63-131	10.1	20	
p,m-Xylene	8.83	0.0500	10.0	ND	88.3	63-131	9.41	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.4	63-131	9.66	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/31/2023 12:56:56PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2321067-BLK1) Prepared: 05/25/23 Analyzed: 05/26/23

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

LCS (2321067-BS2) Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

Matrix Spike (2321067-MS2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/27/23

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2321067-MSD2) Source: E305152-02 Prepared: 05/25/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/31/2023 12:56:56PM

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 (2321081-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		97.1	50-200			

LCS (2321081-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			

Matrix Spike (2321081-MS1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	302	25.0	250	37.4	106	38-132			
Surrogate: n-Nonane	43.6		50.0		87.1	50-200			

Matrix Spike Dup (2321081-MSD1)					Source: E305155-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Diesel Range Organics (C10-C28)	307	25.0	250	37.4	108	38-132	1.63	20	
Surrogate: n-Nonane	43.8		50.0		87.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/31/2023 12:56:56PM

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 (2321083-BLK1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	ND	20.0							
LCS (2321083-BS1)					Prepared: 05/26/23 Analyzed: 05/26/23				
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2321083-MS1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	419	40.0	250	161	103	80-120			
Matrix Spike Dup (2321083-MSD1)					Source: E305153-01		Prepared: 05/26/23 Analyzed: 05/26/23		
Chloride	424	40.0	250	161	105	80-120	1.25	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 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/31/23 12:56

- 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.



[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.

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>E. J. Korman</i>	Date 05/24/23	Time 10:30	Received by: (Signature) <i>Michelle Cough</i>	Date 5-24-23	Time 1030	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 Cough</i>	Date 5-24-23	Time 1815	Received by: (Signature) <i>Hebrew Musso</i>	Date 5-24-23	Time 1830	
Relinquished by: (Signature) <i>Hebrew Musso</i>	Date 5-24-23	Time 2400	Received by: (Signature) <i>Caitlin Mann</i>	Date 5/25/23	Time 8:20	
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: 5/26/2023 2:03:56PM

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:	05/25/23 08:20	Work Order ID:	E305157
Phone:	(539) 573-4018	Date Logged In:	05/25/23 08:33	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	06/01/23 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.

APPENDIX G

NMOCD Notifications

Anna Byers

From: Joseph Hernandez
Sent: Friday, June 9, 2023 1:02 PM
To: Anna Byers
Subject: FW: WPX Site Sampling Update (5/22 - 5/26/2023)

From: Erick Herrera <erick@etechenv.com>
Sent: Wednesday, May 17, 2023 5:14 PM
To: OCD.Enviro@emnrd.nm.gov; blm_nm_cfo_spill@blm.gov
Cc: jim.raley@dmv.com; Devon-Team <Devon-Team@etechenv.com>
Subject: WPX Site Sampling Update (5/22 - 5/26/2023)

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following site between May 22 – May 26, 2023:

Site Name: RDX 16-#008

API: 30-015-39751

Incident Number: nAPP2307930900

Thank you,

Erick Herrera
Staff Geologist



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

Incident ID	nAPP2307930900
District RP	
Facility ID	
Application ID	

Remediation Plan

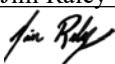
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

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

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

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

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

Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 6/13/2023
email: Jim.Raley@dm.com Telephone: 575-689-7597

OCD Only

Received by: Jocelyn Harimon Date: 06/13/2023

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  Date: 11/14/2023

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

CONDITIONS

Action 227084

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 227084
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. Due to the sensitive nature of the release location and the site being located within a 100-year floodplain, the site will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Sidewall/edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. Please collect confirmation samples, representing no more than 200 ft2. The work will need to occur in 90 days after the report has been reviewed.	11/14/2023

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QUESTIONS

Action 371031

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 371031
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2307930900
Incident Name	NAPP2307930900 RDX 16 #008 @ 30-015-39751
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Well	[30-015-39751] RDX 16 #008

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	RDX 16 #008
Date Release Discovered	03/16/2023
Surface Owner	State

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Human Error Production Tank Crude Oil Released: 4 BBL Recovered: 2 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Human Error Production Tank Produced Water Released: 30 BBL Recovered: 25 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 371031

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	371031
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmn.com Date: 08/06/2024
--	--

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QUESTIONS, Page 3

Action 371031

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	371031
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 100 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 100 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Zero feet, overlying, or within area
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	19900
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	17240
GRO+DRO	(EPA SW-846 Method 8015M)	11900
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	01/18/2024
On what date will (or did) the final sampling or liner inspection occur	07/01/2024
On what date will (or was) the remediation complete(d)	07/01/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	975
What is the estimated volume (in cubic yards) that will be remediated	130

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 371031

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	371031
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R360
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 08/06/2024
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 371031

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
	Action Number:	371031
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Deferral Requests Only**

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Deferred soil lies directly below and adjacent to active storage tanks, surface utilities, and subsurface utilities. Removal of said soil would de-stabilize equipment and endanger personnel onsite.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	4566
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	3134
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-39751 RDX 16 #008
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmn.com Date: 08/06/2024

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QUESTIONS, Page 6

Action 371031

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 371031
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	359231
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/02/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	4250

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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

CONDITIONS

Action 371031

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 371031
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	WPX's deferral requests final remediation for (Incident Number NAPP2307930900) until final reclamation of the well pad or major construction, whichever comes first. WPX and eTECH do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The release has been vertically delineated by boreholes BH01 and BH06. The release is laterally delineated by boreholes BH02, BH03, BH04, and BH05. The areas requested for deferral are located on the inside of the earthen berm battery and are in close proximity to the facility infrastructure, which include sample locations (FS01 through FS14). At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and placed in the incident file. The release will remain open in OCD database files and reflect an open environmental issue.	9/5/2024