



January 23, 2024

**New Mexico Energy Minerals and Natural Resources Department**

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Deferral Request Update  
RDX 15 #001  
Incident Number nAB1817138256  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of WPX Energy Permian, LLC (WPX), has prepared this *Deferral Request Update* to document excavation and soil sampling activities at the RDX 15 #001 (Site). The purpose of the Site assessment and soil sampling activities was to address impacts to soil following a release of produced water into an earthen secondary containment. Based on field observations, field screening activities, and soil sample laboratory analytical results, WPX is submitting this *Deferral Request Update*, describing Site assessment and excavation activities that have occurred, addressing concerns of the New Mexico Oil Conservation Division (NMOCD), and requesting deferral of final remediation for Incident Number nAB1817138256 until the Site is reconstructed, and/or the well pad is plugged and abandoned and the deferral area is safely accessible.

A Deferral report authored by Ensolum, was submitted to the NMOCD on August 25, 2023, and denied for the following reason:

- ***Deferral request denied.***
- ***BH01 exceeded closure criteria for Table 1 at 0.5 feet. This sample is not included in the area requested for deferral.***
- ***Submit a report via the OCD permitting site by January 29, 2024.***

On October 17, 2032, Ensolum personnel reached out to NMOCD via email for further clarification regarding BH01@ 0.5 feet below ground surface (bgs); however, a response was not received; correspondences with the NMOCD have been added to Appendix F. Vertical delineation sample BH01@ 0.5 feet below ground surface (bgs) does not exceed the Site Closure Criteria and is located inside the earthen containment. This is currently an active well pad with active production equipment (tanks and associated piping) and depth to water at the Site is greater than 55 feet bgs. It is not reasonable to deconstruct the active tank battery, which includes crude oil and produced water tanks and associated flow lines, or to remove waste-containing soils inside the earthen containment, and as such, reclamation will be completed during final reclamation of the Site.

Below is a description of desktop and field activities completed to-date at the Site, which explains in greater detail the request for deferment of remedial activities.

WPX Energy Permian, LLC  
Deferral Request  
RDX 15 #001

## SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in in Unit D, Section 15, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.04900477°, -103.87652117°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On May 31, 2018, a water transfer pump malfunctioned and stopped transferring water to disposal. This resulted in the release of approximately 20 barrels (bbls) of produced water inside the earthen containment; 15 bbls were recovered with a vac truck. WPX submitted a Release Notification Form C-141 (Form C-141) on June 13, 2018. The release was assigned Incident Number nAB1817138256 (Appendix A).

On November 14, 2018, WPX contracted LT Environmental, Inc. (LTE) to assess the spill area and to conduct delineation soil sampling. On February 28, 2019, WPX excavated an area on the north side of the produced water tanks and inside the earthen containment to a depth of 2 feet below ground surface (bgs). The excavation area measured roughly 270 square feet and approximately 20 cubic yards of impacted soil was removed from the area. The remaining waste-containing soil was left in place due to the proximity of active production equipment.

## SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-4655 with a depth to water measurement greater than 55 feet bgs. The well was a soil boring drilled to assess depth to groundwater beneath the Site and was advanced approximately 36 feet north of the spill area and measured on August 8, 2022. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 699 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Potential site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

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## DELINEATION SOIL SAMPLING ACTIVITIES

Beginning on June 29, 2023, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Three delineation soil samples (SS01, SS02 and SS04) were collected outside the earthen containment to assess the lateral extent of impacted soil at surface. Ensolum personnel returned to the Site on July 18, 2023, to collect lateral delineation soil sample SS03 and to complete two boreholes via hand auger inside the earthen containment. Ensolum personnel achieved a terminal depth of 6 feet bgs in borehole location BH01 before refusal and vertical delineation to a depth of 3 feet bgs was achieved in borehole location BH02.

On July 31, 2023, Ensolum personnel returned to the Site to collect a surface sample from borehole location BH02. Delineation soil samples were field screened for volatile aromatic hydrocarbons utilizing a calibrated photoionization detector (PID), chloride utilizing Hach® chloride QuanTab® test strips, and TPH utilizing PetroFLAG® soil reagents. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was collected and a photographic log is included in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech, Inc. (Envirotech) in Farmington, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results from delineation soil samples SS01 through SS04 were in compliance with the Site Closure Criteria and with the strictest criteria per NMOCDC Table I. Laboratory analytical results from boreholes BH01 and BH02 indicated all COC concentrations were all in compliance with the Site Closure Criteria except BH02, which had elevated concentrations of TPH within the ground surface soil sample.

The estimated area of remaining impacted soil measures approximately 1,021 square feet and assuming a depth of 3 feet based on the analytical results for delineation borehole BH02@3', a total of approximately 113 cubic yards of impacted soil remains in place. The deferral area and borehole location are depicted on Figure 3.

## DEFERRAL REQUEST

WPX is requesting deferral of final remediation due to the presence of active production equipment and process piping preventing full excavation of impacted soil. The impacted soil is limited to the area beneath production equipment and surface piping, where remediation would require a major facility deconstruction. WPX was able to excavate approximately 20 cubic yards of accessible impacted soil on the north side of the produced water tanks. The impacted soil remaining in place is laterally defined by delineation soil samples SS01 through SS04 and BH01 at ground surface and vertically defined by borehole sample BH02@3'.

Laboratory analytical results indicated delineation soil samples are all below the Closure Criteria for the Site except BH02 at ground surface, which exceeded the Closure Criteria. The petroleum hydrocarbon range for residual contaminants is greater than C-10 (TPH-DRO and TPH-ORO ranges), which indicates the more toxic fraction of the hydrocarbons is not present and is thus protective of human health and the environment. In order to address the residual elevated TPH concentrations at surface, WPX proposes treating the soil with Micro-Blaze® to assist with the natural degradation of hydrocarbons inside the earthen containment through biodegradation. WPX will also install a layer of pea-sized gravel to act

WPX Energy Permian, LLC  
Deferral Request  
RDX 15 #001

as a barrier over the Micro-Blaze® treatment area to prevent workers and/or wildlife from coming into contact with the treated area as well as allow air movement through the gravel to support volatilization.

WPX does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 55 feet bgs, and the entirety of the release remained on pad. Any gross impacts were removed during the initial cleanup.

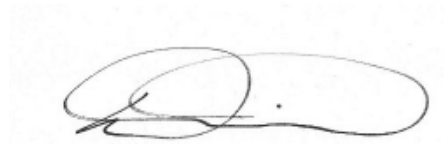
Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, WPX requests deferral of final remediation for Incident Number nAB1817138256 until final reclamation of the well pad or major construction, whichever comes first.

If you have any questions or comments, please contact Ms. Ashley Giovengo at (575) 988-0055 or [agiovengo@ensolum.com](mailto:agiovengo@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Ashley Giovengo  
Senior Engineer



Daniel R. Moir, PG  
Senior Managing Geologist

cc: Jim Raley, Devon Energy  
Crisha A. Morgan, BLM

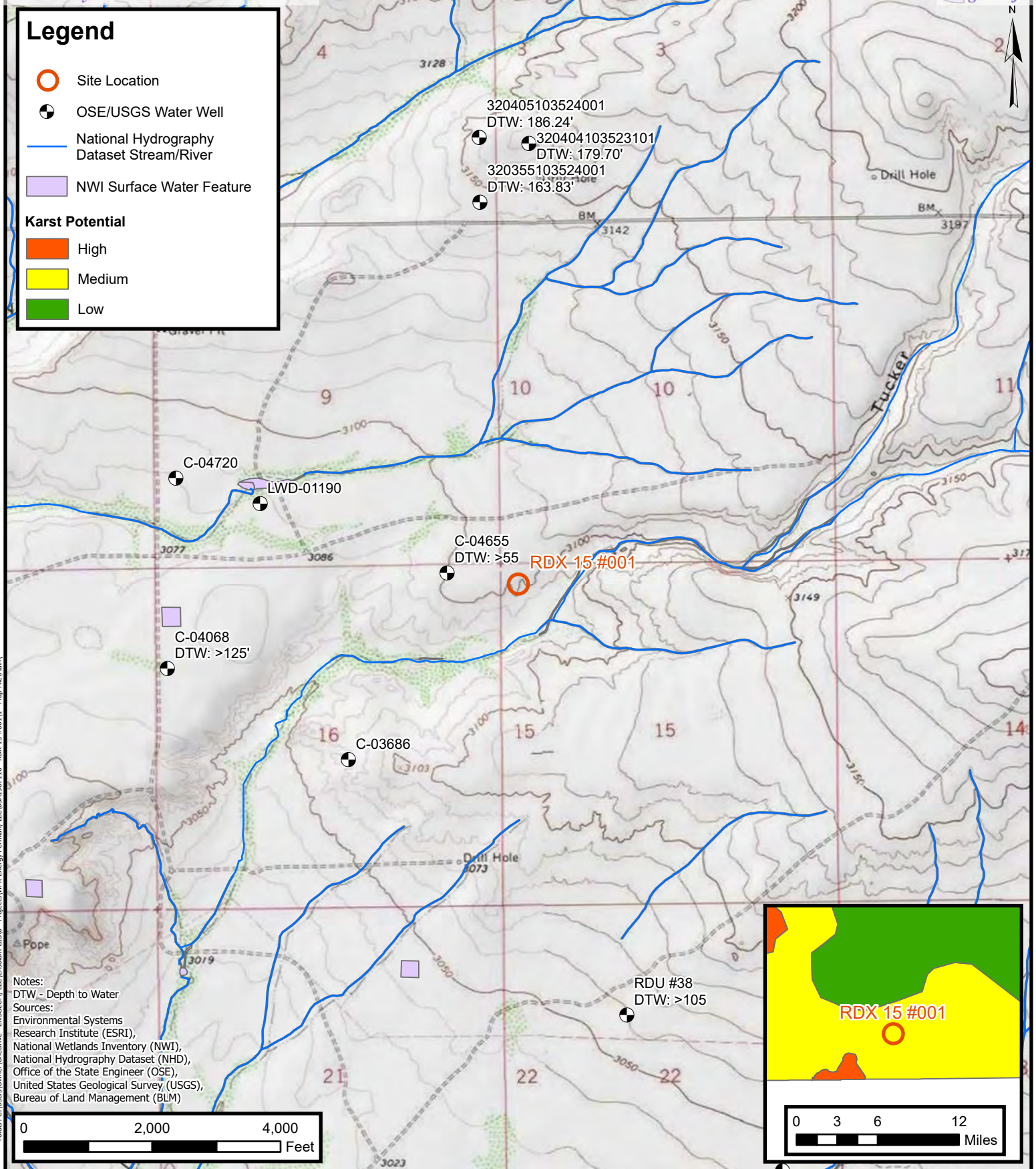
Appendices:

|            |  |
|------------|--|
| Figure 1   | Site Receptor Map  |
| Figure 2   | Delineation Soil Sample Locations                              |
| Figure 3   | Deferral Area Map  |
| Table 1    | Soil Sample Analytical Results                                 |
| Appendix A | C-141 Form   |
| Appendix B | Referenced Well Records  |
| Appendix C | Photographic Log   |
| Appendix D | Lithologic / Soil Sampling Logs                                |
| Appendix E | Laboratory Analytical Reports & Chain-of-Custody Documentation |
| Appendix F | Email Correspondence   |





Figures



## Site Receptor Map

WPX Energy Permian, LLC

RDX 15 #001

Incident Number: nAB1817138256

Unit D, Section 15, Township 26S, Range 30E

Eddy County, New Mexico

FIGURE

1





## Delineation Soil Sample Locations

RDX 15 #001

WPX Energy Permian, LLC

Incident Number: nAB1817138256  
 Unit D, Section 15, Township 26S, Range 30E  
 Eddy County, New Mexico

FIGURE

2



## Area of Requested Deferral

RDX 15 #001

WPX Energy Permian, LLC

Incident Number: nAB1817138256  
 Unit D, Section 15, Township 26S, Range 30E  
 Eddy County, New Mexico

FIGURE

**3**



Tables



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 RDX 15 #001  
 WPX Energy Permian, LLC  
 Eddy County, New Mexico

| Sample Designation                                    | Date      | Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|-----------|------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| <b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b> |           |                  | <b>10</b>       | <b>50</b>          | <b>NE</b>       | <b>NE</b>       | <b>NE</b>       | <b>1,000</b>    | <b>2,500</b>      | <b>10,000</b>    |
| <b>Delineation Soil Samples</b>                       |           |                  |                 |                    |                 |                 |                 |                 |                   |                  |
| SS01  | 6/29/2023 | 0                | <0.025          | <0.050             | <20.0           | <25.0           | <50.0           | <20.0           | <20.0             | 28.9             |
| SS02  | 6/29/2023 | 0                | <0.025          | <0.050             | <20.0           | <25.0           | <50.0           | <20.0           | <20.0             | 114              |
| SS03  | 7/18/2023 | 0                | <0.025          | <0.050             | <20.0           | <25.0           | <50.0           | <20.0           | <20.0             | 234              |
| SS04  | 6/29/2023 | 0                | <0.025          | <0.050             | <20.0           | <25.0           | <50.0           | <20.0           | <20.0             | <20.0            |
| BH01  | 7/18/2023 | 0.5              | <0.025          | <0.050             | <20.0           | <25.0           | <50.0           | <20.0           | <20.0             | 619              |
| BH01  | 7/18/2023 | 2                | <0.025          | <0.050             | <20.0           | <25.0           | <50.0           | <20.0           | <20.0             | 599              |
| BH01  | 7/18/2023 | 4                | <0.025          | <0.050             | <20.0           | <25.0           | <50.0           | <20.0           | <20.0             | 1,300            |
| BH01  | 7/18/2023 | 6                | <0.025          | <0.050             | <20.0           | <25.0           | <50.0           | <20.0           | <20.0             | 2,210            |
| BH02  | 7/31/2023 | 0                | <0.025          | <0.050             | <20.0           | 20,200          | 11,400          | <b>20,200</b>   | <b>31,600</b>     | 5,010            |
| BH02  | 7/18/2023 | 3                | <0.025          | <0.050             | <20.0           | <25.0           | <50.0           | <20.0           | <20.0             | 26.6             |

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

&lt;: Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

\* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes





# APPENDIX A

## C-141 Form

---

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised April 3, 2017  
JUN 13 2018  
Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.  
DISTRICT II-ARTESIA O.C.D.

### Release Notification and Corrective Action

*0981817138256* **OPERATOR** ☒ Initial Report ☐ Final Report

|   |                            |
|---|----------------------------|
| Name of Company: WPX Energy <i>RK1 246289</i> | Contact: Karolina Blaney   |
| Address: 5315 Buena Vista Dr.                 | Telephone No. 970 589 0743 |
| Facility Name: RDX 15-1                       | Facility Type: Well Pad    |

|                        |                        |                       |
|------------------------|------------------------|-----------------------|
| Surface Owner: Federal | Mineral Owner: Federal | API No. 30- 015-35955 |
|------------------------|------------------------|-----------------------|

### LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| D           | 15      | 26S      | 30E   | 330           | FNL              | 330           | FWL            | Eddy   |

Latitude: 32.04900477\_ Longitude -103.87652117 NAD83

### NATURE OF RELEASE

|  |  |   |
|--|--|---|
| Type of Release: Produced Water  | Volume of Release: 20 bbls   | Volume Recovered 15 bbls                      |
| Source of Release:<br>Tank Battery   | Date and Hour of Occurrence<br>5/31/18   | Date and Hour of Discovery<br>5/31/18 4:30 pm |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required   | If YES, To Whom?<br>NMOCD Crystal Weaver & Michael Bratcher, BLM Shelly Tucker |   |
| By Whom? Karolina Blaney   | Date and Hour 6/1/2018 at 11:28  |   |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If YES, Volume Impacting the Watercourse.                                      |   |
| If a Watercourse was Impacted, Describe Fully.*<br><br>N/A   |  |   |
| Describe Cause of Problem and Remedial Action Taken.*<br><br>Water transfer pump tripped out and stopped the water transfer to disposal. 20 bbls of produced water was spilled inside dirt SPCC containment. Small amount of water was sprayed on top of the berm by the loadout buckets. None of the fluids have left the location.   |  |   |
| Describe Area Affected and Cleanup Action Taken.*<br><br>The impacted area was immediately mapped with a Trimble to delineate the horizontal extent of the impacts. The impacted area is being dug out by hand. Baseline samples will be collected once the area is cleaned up; samples will be analyzed for TPH, BTEX and chloride. Further delineation and remediation will be based on the laboratory results.  |  |   |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |  |   |

|   |  |                             |
|---|--|-----------------------------|
| Signature: <i>Karolina Blaney</i>             | <b>OIL CONSERVATION DIVISION</b>                         |                             |
| Printed Name: Karolina Blaney                 | Approved by Environmental Specialist: <i>[Signature]</i> |                             |
| Title: Environmental Specialist               | Approval Date: <i>6/13/18</i>                            | Expiration Date: <i>N/A</i> |
| E-mail Address: Karolina.blaney@wpxenergy.com | Conditions of Approval: <i>See attached</i>              |                             |
| Date: 6-13-18 Phone: 970 589 0743             | Attached: <i>22P-4810</i>                                |                             |

\* Attach Additional Sheets If Necessary

|                |               |
|----------------|---------------|
| Incident ID    | nAB1817138256 |
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

|   |  |
|---|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release?<br>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)?                          |  |

## 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.<br><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.<br><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.<br><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>James Raley</u>   | Title: <u>Environmental Professional – Permian Basin</u> |
| Signature: _____   | Date: <u>08/09/2023</u>                                  |
| email: <u>jim.raley@dvn.com</u>  | Telephone: <u>575-689-7597</u>                           |
| <b><u>OCD Only</u></b>   |  |
| Received by: _____   | Date: _____  |

|                |               |
|----------------|---------------|
| Incident ID    | nAB1817138256 |
| 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?   | <u>&gt;55</u> (ft bgs)  |
| Did this release impact groundwater or surface water?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> 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.

|   |
|---|
| <p><b>Characterization Report Checklist:</b> <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li><li><input checked="" type="checkbox"/> Field data</li><li><input checked="" type="checkbox"/> Data table of soil contaminant concentration data</li><li><input checked="" type="checkbox"/> Depth to water determination</li><li><input checked="" type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li><li><input checked="" type="checkbox"/> Boring or excavation logs</li><li><input checked="" type="checkbox"/> Photographs including date and GIS information</li><li><input checked="" type="checkbox"/> Topographic/Aerial maps</li><li><input checked="" type="checkbox"/> Laboratory data including chain of custody</li></ul> |
|---|

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    | nAB1817138256 |
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

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

Printed Name: James Raley Title: Environmental Professional – Permian Basin

Signature: \_\_\_\_\_ Date: 01/24/2024

email: jim.raley@dvn.com Telephone: 575-689-7597

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

|                |               |
|----------------|---------------|
| Incident ID    | nAB1817138256 |
| District RP    |               |
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| 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: James Raley Title: Environmental Professional – Permian Basin

Signature: \_\_\_\_\_ Date: 01/24/2024

email: jim.raley@dvn.com Telephone: 575-689-7597

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_





## APPENDIX B

### Well Record

---



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

OSC 011 900 8 2022-01-30

|  |   |                     |  |   |   |  |                                   |                       |
|--|---|---------------------|--|---|---|--|-----------------------------------|-----------------------|
| 1. GENERAL AND WELL LOCATION   | OSE POD NO. (WELL NO.)<br>POD 1 (TW-1)  |                     | WELL TAG ID NO.<br>N/A                       |   | OSE FILE NO(S).<br>C-4655                         |  |                                   |                       |
|  | WELL OWNER NAME(S)<br>Devon Energy  |                     |  |   | PHONE (OPTIONAL)<br>575-748-1838                  |  |                                   |                       |
|  | WELL OWNER MAILING ADDRESS<br>6488 7 Rivers Hwy   |                     |  |   | CITY<br>Artesia                                   | STATE<br>NM  | ZIP<br>88210                      |                       |
|  | WELL LOCATION<br>(FROM GPS)   | DEGREES<br>LATITUDE | MINUTES<br>32                                | SECONDS<br>2  | 58.26   | N  |                                   |                       |
|  |   | LONGITUDE           | 103  | 52  | 48.37   | W  |                                   |                       |
| * ACCURACY REQUIRED: ONE TENTH OF A SECOND<br>* DATUM REQUIRED: WGS 84   |   |                     |  |   |   |  |                                   |                       |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE<br>NW NE NE Sec.16 T26S R30E, NMPM |   |                     |  |   |   |  |                                   |                       |
| 2. DRILLING & CASING INFORMATION   | LICENSE NO.<br>1249   |                     | NAME OF LICENSED DRILLER<br>Jackie D. Atkins |   |   | NAME OF WELL DRILLING COMPANY<br>Atkins Engineering Associates, Inc. |                                   |                       |
|  | DRILLING STARTED<br>7/28/2022   |                     | DRILLING ENDED<br>7/28/2022                  |   | DEPTH OF COMPLETED WELL (FT)<br>Temporary Well    |  |                                   |                       |
|  |   |                     | BORE HOLE DEPTH (FT)<br>±55                  |   | DEPTH WATER FIRST ENCOUNTERED (FT)<br>N/A         |  |                                   |                       |
|  | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)   |                     |  |   |   | STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A                        |                                   |                       |
|  |   |                     |  |   |   | DATE STATIC MEASURED<br>7/28/22, 8/2/22                              |                                   |                       |
|  | DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:  |                     |  |   |   |  |                                   |                       |
|  | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger |                     |  |   |   | CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>  |                                   |                       |
|  | DEPTH (feet bgl)  |                     | BORE HOLE DIAM.<br>(inches)                  | CASING MATERIAL AND/OR GRADE<br>(include each casing string, and note sections of screen) | CASING CONNECTION TYPE<br>(add coupling diameter) | CASING INSIDE DIAM.<br>(inches)                                      | CASING WALL THICKNESS<br>(inches) | SLOT SIZE<br>(inches) |
|  | FROM  | TO                  |  |   |   |  |                                   |                       |
|  | 0   | 55                  | ±6.5   | Boring-HSA  | --  | --   | --                                | --                    |
|  |   |                     |  |   |   |  |                                   |                       |
|  |   |                     |  |   |   |  |                                   |                       |
|  |   |                     |  |   |   |  |                                   |                       |
|  |   |                     |  |   |   |  |                                   |                       |
|  |   |                     |  |   |   |  |                                   |                       |
|  |   |                     |  |   |   |  |                                   |                       |
|  |   |                     |  |   |   |  |                                   |                       |
|  |   |                     |  |   |   |  |                                   |                       |
| 3. ANNULAR MATERIAL  | DEPTH (feet bgl)  |                     | BORE HOLE DIAM. (inches)                     | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL                         | AMOUNT (cubic feet)                               | METHOD OF PLACEMENT  |                                   |                       |
|  | FROM  | TO                  |  |   |   |  |                                   |                       |
|  |   |                     |  |   |   |  |                                   |                       |
|  |   |                     |  |   |   |  |                                   |                       |
|  |   |                     |  |   |   |  |                                   |                       |
|  |   |                     |  |   |   |  |                                   |                       |
|  |   |                     |  |   |   |  |                                   |                       |
|  |   |                     |  |   |   |  |                                   |                       |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)


|                           |                   |                |
|---------------------------|-------------------|----------------|
| FILE NO. C-4655           | POD NO. 1         | TRN NO. 729332 |
| LOCATION 26S-30E-16-1-2-2 | WELL TAG ID NO. — | PAGE 1 OF 2    |

| 4. HYDROGEOLOGIC LOG OF WELL  | DEPTH (feet bgl) |    | THICKNESS<br>(feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED -<br>INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES<br>(attach supplemental sheets to fully describe all units) | WATER<br>BEARING?<br>(YES / NO)           | ESTIMATED<br>YIELD FOR<br>WATER-<br>BEARING<br>ZONES (gpm) |
|---|------------------|----|---------------------|--|---|--|
|   | FROM             | TO |                     |  |   |  |
|   | 0                | 4  | 4                   | Sand, Fine-grained, poorly graded, Brown   | Y ✓ N                                     |  |
|   | 4                | 48 | 44                  | Sand, Fine-grained, poorly graded, with caliche Tan and white  | Y ✓ N                                     |  |
|   | 48               | 55 | 7                   | Sand, Fine-grained, poorly graded, Tan Brown   | Y ✓ N                                     |  |
|   |                  |    |                     |  | Y N                                       |  |
|   |                  |    |                     |  | Y N                                       |  |
|   |                  |    |                     |  | Y N                                       |  |
|   |                  |    |                     |  | Y N                                       |  |
|   |                  |    |                     |  | Y N                                       |  |
|   |                  |    |                     |  | Y N                                       |  |
|   |                  |    |                     |  | Y N                                       |  |
|   |                  |    |                     |  | Y N                                       |  |
|   |                  |    |                     |  | Y N                                       |  |
|   |                  |    |                     |  | Y N                                       |  |
|   |                  |    |                     |  | Y N                                       |  |
|   |                  |    |                     |  | Y N                                       |  |
|   |                  |    |                     |  | Y N                                       |  |
|   |                  |    |                     |  | Y N                                       |  |
|   |                  |    |                     |  | Y N                                       |  |
|   |                  |    |                     |  | Y N                                       |  |
|   |                  |    |                     |  | Y N                                       |  |
|   |                  |    |                     |  | Y N                                       |  |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:<br><input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY: |                  |    |                     |  | TOTAL ESTIMATED<br>WELL YIELD (gpm): 0.00 |  |

|                          |  |   |
|--------------------------|--|---|
| 5. TEST; RIG SUPERVISION | WELL TEST  | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. |
|                          | MISCELLANEOUS INFORMATION:<br>Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.<br><br>USE OF PLS 8 2022 04/10/17 |   |
|                          | PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:<br>Shane Eldridge, Cameron Pruitt  |   |

|              |   |                                      |
|--------------|---|--------------------------------------|
| 6. SIGNATURE | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: |                                      |
|              | <br>SIGNATURE OF DRILLER / PRINT SIGNED NAME   | Jackie D. Atkins<br>8/4/2022<br>DATE |

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 01/28/2022)

FILE NO. C-4655

POD NO. 1

TRN NO. 729332

LOCATION 265.30E.16.1.2.2.

WELL TAG ID NO.

PAGE 2 OF 2



2904 W 2nd St.  
Roswell, NM 88201  
voice: 575.624.2420  
fax: 575.624.2421  
www.atkinseng.com

August 4, 2022

DII-NMOSE  
1900 W 2<sup>nd</sup> Street  
Roswell, NM 88201

*Hand Delivered to the DII Office of the State Engineer*

Re: Well Record C-4655 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4655 Pod1.

If you have any questions, please contact me at 575.499.9244 or [lucas@atkinseng.com](mailto:lucas@atkinseng.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

052022 AUG 08 2022




## APPENDIX C


### Lithologic Soil Sampling Logs

---



|    |                |             |          |           |                       |                |                  | Sample Name: BH01  |  | Date: 7/18/23      |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|--------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: RDX 15 #001   |  |                    |  |
|   |                |             |          |           |                       |                |                  | Incident Number: nAB1817138256                                 |  |                    |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03A1987069   |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: Cason Dillon  |  | Method: Hand Auger |  |
| Coordinates: 32.0486967, -103.8764327   |                |             |          |           |                       |                |                  | Hole Diameter: 4 in.   |  | Total Depth: 6 ft. |  |
| 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 (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions  |  |                    |  |
| M   | /              | /           | N        | BH01@0.5' | 0                     | 0              | SP               | SAND, fine to medium, dark brown, slight HC odor, no staining. |  |                    |  |
| M   | /              | /           | N        | BH01@1'   | 0.5                   | 0.5            |                  |  |  |                    |  |
| M   | /              | /           | N        | BH01@2'   | 1                     | 1              |                  |  |  |                    |  |
| M   | 45             | 1000        | N        | BH01@3'   | 2                     | 2              | SP               | SAND, fine to medium, dark brown, no stain or HC odor.         |  |                    |  |
| M   | 47             | 900         | N        | BH01@4'   | 3                     | 3              |                  |  |  |                    |  |
| M   | 51             | 1500        | N        | BH01@5'   | 4                     | 4              |                  |  |  |                    |  |
| M   | 62             | 2380        | N        | BH01@6'   | 5                     | 5              |                  |  |  |                    |  |
|   |                |             |          |           | 6                     | 6              |                  |  |  |                    |  |
| TD: 6 feet bgs. Auger refusal.  |                |             |          |           |                       |                |                  |  |  |                    |  |



|    |                |             |          |           |                       |                |                  | Sample Name: BH02  |  | Date: 7/18/23      |  |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|--------------------|--|
|   |                |             |          |           |                       |                |                  | Site Name: RDX 15 #001   |  |                    |  |
|   |                |             |          |           |                       |                |                  | Incident Number: nAB1817138256                                 |  |                    |  |
|   |                |             |          |           |                       |                |                  | Job Number: 03A1987069   |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |           |                       |                |                  | Logged By: Cason Dillon  |  | Method: Hand Auger |  |
| Coordinates: 32.0486962, -103.8765681   |                |             |          |           |                       |                |                  | Hole Diameter: 4 in.   |  | Total Depth: 6 ft. |  |
| 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 (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions  |  |                    |  |
| M   | /              | /           | N        | BH02@0.5' | 0                     | 0              | SP               | SAND, fine to medium, dark brown, slight HC odor, no staining. |  |                    |  |
| M   | /              | /           | N        | BH02@1'   | 0.5                   | 0.5            |                  |  |  |                    |  |
| M   | /              | /           | N        | BH02@2'   | 1                     | 1              |                  |  |  |                    |  |
| M   | /              | /           | N        | BH02@2'   | 2                     | 2              | SP               | SAND, fine to medium, dark brown, no stain or HC odor.         |  |                    |  |
| M   | 57             | 450         | N        | BH02@3'   | 3                     | 3              |                  |  |  |                    |  |
| M   | 36             | 400         | N        | BH02@4'   | 4                     | 4              |                  |  |  |                    |  |
| M   | 74             | 300         | N        | BH02@5'   | 5                     | 5              |                  |  |  |                    |  |
| TD: 5 feet bgs  |                |             |          |           |                       |                |                  |  |  |                    |  |



## APPENDIX D

### Photographic Log

---

**Photographic Log**

WPX Energy Permian, LLC

RDX 15 #001

Incident Number: nAB1817138256

Ensolum Job Number: 03A1987069



Photograph 1

Date: 05-31-2018

Description: Spill Area

View: Southwest



Photograph 2

Date: 05-31-2018

Description: Spill Area

View: South

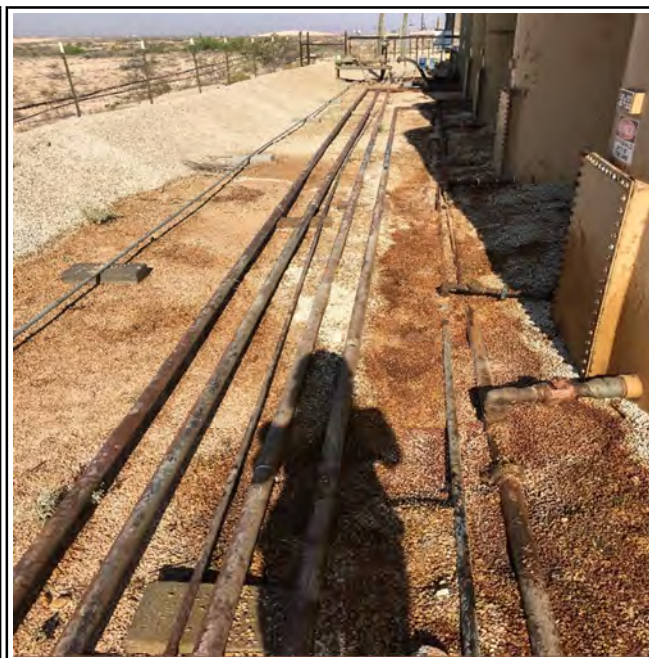


Photograph 3

Date: 05-31-2018

Description: Spill Area

View: Southeast



Photograph 4

Date: 05-31-2018

Description: Spill Area

View: East





# Photographic Log

WPX Energy Permian, LLC

RDX 15 #001

Incident Number: nAB1817138256

Ensolum Job Number: 03A1987069

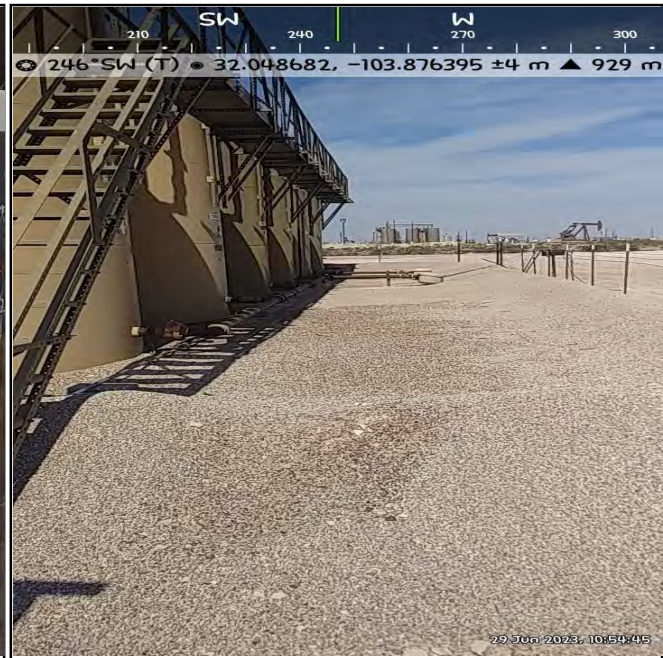


Photograph 5

Date: 06-29-2023

Description: Site Sign

View: South



Photograph 6

Date: 06-29-2023

Description: Site Assesment / Delineation

View: Southwest



Photograph 7

Date: 06-29-2023

Description: Site Assesment / Delineation

View: Southwest



Photograph 8

Date: 06-29-2023

Description: Site Assesment / Delineation

View: East



**Photographic Log**

WPX Energy Permian, LLC

RDX 15 #001

Incident Number: nAB1817138256

Ensolum Job Number: 03A1987069



Photograph 9

Date: 07-18-2023

Description: Borehole BH01

View: West



Photograph 10

Date: 07-18-2023

Description: Hand Augering

View: West



Photograph 11

Date: 07-18-2023

Description: Hand Augering

View: Southwest



Photograph 12

Date: 07-31-2023

Description: Sample BH02-0'

View: South



## APPENDIX E

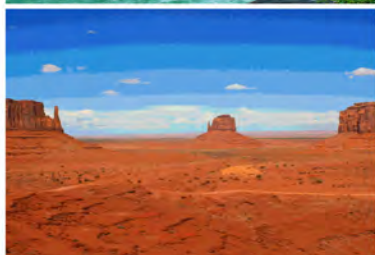
### Laboratory Analytical Reports & Chain-of-Custody Documentation

---



Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 15-1

Work Order: E306247

Job Number: 01058-0007

Received: 7/5/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/10/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/10/23



Ashley Giovengo  
5315 Buena Vista Dr  
Carlsbad, NM 88220

Project Name: RDX 15-1  
Workorder: E306247  
Date Received: 7/5/2023 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/5/2023 8:00:00AM, under the Project Name: RDX 15-1.

The analytical test results summarized in this report with the Project Name: RDX 15-1 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

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

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

|                       |                  |                 |                |
|-----------------------|------------------|-----------------|----------------|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:      |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |                |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo | 07/10/23 15:06 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| SS01-0'          | E306247-01A   | Soil   | 06/29/23 | 07/05/23 | Glass Jar, 2 oz. |
| SS02-0'          | E306247-02A   | Soil   | 06/29/23 | 07/05/23 | Glass Jar, 2 oz. |
| SS04-0'          | E306247-03A   | Soil   | 06/29/23 | 07/05/23 | Glass Jar, 2 oz. |



Sample Data

|  |  |                                  |
|--|--|----------------------------------|
| WPX Energy - Carlsbad<br>5315 Buena Vista Dr<br>Carlsbad NM, 88220 | Project Name: RDX 15-1<br>Project Number: 01058-0007<br>Project Manager: Ashley Giovengo | Reported:<br>7/10/2023 3:06:14PM |
|--|--|----------------------------------|

SS01-0'  
E306247-01

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
|   |        |                 |             |          |                |       |
| <b>Volatile Organics by EPA 8021B</b>                 | mg/kg  | mg/kg           | Analyst: IY |          | Batch: 2327003 |       |
| Benzene   | ND     | 0.0250          | 1           | 07/05/23 | 07/05/23       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 07/05/23 | 07/05/23       |       |
| Toluene   | ND     | 0.0250          | 1           | 07/05/23 | 07/05/23       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 07/05/23 | 07/05/23       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 07/05/23 | 07/05/23       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 07/05/23 | 07/05/23       |       |
|   |        |                 |             |          |                |       |
| Surrogate: 4-Bromochlorobenzene-PID                   |        | 101 %           | 70-130      | 07/05/23 | 07/05/23       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           | Analyst: IY |          | Batch: 2327003 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 07/05/23 | 07/05/23       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               |        | 86.6 %          | 70-130      | 07/05/23 | 07/05/23       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           | Analyst: KM |          | Batch: 2327033 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 07/06/23 | 07/07/23       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 07/06/23 | 07/07/23       |       |
| Surrogate: n-Nonane                                   |        | 87.7 %          | 50-200      | 07/06/23 | 07/07/23       |       |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2327028 |       |
| Chloride  | 28.9   | 20.0            | 1           | 07/06/23 | 07/07/23       |       |



Sample Data

|                       |                  |                 |   |
|-----------------------|------------------|-----------------|---|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | <b>Reported:</b><br>7/10/2023 3:06:14PM |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |   |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo |   |

SS02-0'

E306247-02

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 | mg/kg  | mg/kg           | Analyst: IY |          | Batch: 2327003 |       |
| Benzene   | ND     | 0.0250          | 1           | 07/05/23 | 07/06/23       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 07/05/23 | 07/06/23       |       |
| Toluene   | ND     | 0.0250          | 1           | 07/05/23 | 07/06/23       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 07/05/23 | 07/06/23       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 07/05/23 | 07/06/23       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 07/05/23 | 07/06/23       |       |
| Surrogate: 4-Bromochlorobenzene-PID                   | 102 %  | 70-130          |             | 07/05/23 | 07/06/23       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           | Analyst: IY |          | Batch: 2327003 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 07/05/23 | 07/06/23       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 87.1 % | 70-130          |             | 07/05/23 | 07/06/23       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           | Analyst: KM |          | Batch: 2327033 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 07/06/23 | 07/07/23       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 07/06/23 | 07/07/23       |       |
| Surrogate: n-Nonane                                   | 88.6 % | 50-200          |             | 07/06/23 | 07/07/23       |       |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2327028 |       |
| Chloride  | 114    | 20.0            | 1           | 07/06/23 | 07/07/23       |       |



Sample Data

|                       |                  |                 |   |
|-----------------------|------------------|-----------------|---|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | <b>Reported:</b><br>7/10/2023 3:06:14PM |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |   |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo |   |

SS04-0'

E306247-03

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 | mg/kg  | mg/kg           | Analyst: IY |          | Batch: 2327003 |       |
| Benzene   | ND     | 0.0250          | 1           | 07/05/23 | 07/06/23       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 07/05/23 | 07/06/23       |       |
| Toluene   | ND     | 0.0250          | 1           | 07/05/23 | 07/06/23       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 07/05/23 | 07/06/23       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 07/05/23 | 07/06/23       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 07/05/23 | 07/06/23       |       |
| Surrogate: 4-Bromochlorobenzene-PID                   | 102 %  | 70-130          |             | 07/05/23 | 07/06/23       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           | Analyst: IY |          | Batch: 2327003 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 07/05/23 | 07/06/23       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 86.8 % | 70-130          |             | 07/05/23 | 07/06/23       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           | Analyst: KM |          | Batch: 2327033 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 07/06/23 | 07/07/23       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 07/06/23 | 07/07/23       |       |
| Surrogate: n-Nonane                                   | 95.5 % | 50-200          |             | 07/06/23 | 07/07/23       |       |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2327028 |       |
| Chloride  | ND     | 20.0            | 1           | 07/06/23 | 07/07/23       |       |



QC Summary Data

|                       |                  |                 |                     |
|-----------------------|------------------|-----------------|---------------------|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:           |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |                     |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo | 7/10/2023 3:06:14PM |

Volatile Organics by EPA 8021B

Analyst: IY

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

Blank (2327003-BLK1) Prepared: 07/05/23 Analyzed: 07/05/23

|                                     |      |        |      |  |     |        |  |  |  |
|-------------------------------------|------|--------|------|--|-----|--------|--|--|--|
| Benzene                             | ND   | 0.0250 |      |  |     |        |  |  |  |
| Ethylbenzene                        | ND   | 0.0250 |      |  |     |        |  |  |  |
| Toluene                             | ND   | 0.0250 |      |  |     |        |  |  |  |
| o-Xylene                            | ND   | 0.0250 |      |  |     |        |  |  |  |
| p,m-Xylene                          | ND   | 0.0500 |      |  |     |        |  |  |  |
| Total Xylenes                       | ND   | 0.0250 |      |  |     |        |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 8.37 |        | 8.00 |  | 105 | 70-130 |  |  |  |

LCS (2327003-BS1) Prepared: 07/05/23 Analyzed: 07/05/23

|                                     |      |        |      |  |      |        |  |  |  |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene                             | 4.90 | 0.0250 | 5.00 |  | 97.9 | 70-130 |  |  |  |
| Ethylbenzene                        | 4.75 | 0.0250 | 5.00 |  | 95.0 | 70-130 |  |  |  |
| Toluene                             | 4.91 | 0.0250 | 5.00 |  | 98.2 | 70-130 |  |  |  |
| o-Xylene                            | 4.89 | 0.0250 | 5.00 |  | 97.8 | 70-130 |  |  |  |
| p,m-Xylene                          | 9.84 | 0.0500 | 10.0 |  | 98.4 | 70-130 |  |  |  |
| Total Xylenes                       | 14.7 | 0.0250 | 15.0 |  | 98.2 | 70-130 |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 8.21 |        | 8.00 |  | 103  | 70-130 |  |  |  |

Matrix Spike (2327003-MS1) Source: E306248-23 Prepared: 07/05/23 Analyzed: 07/05/23

|                                     |      |        |      |        |      |        |  |  |  |
|-------------------------------------|------|--------|------|--------|------|--------|--|--|--|
| Benzene                             | 4.76 | 0.0250 | 5.00 | ND     | 95.3 | 54-133 |  |  |  |
| Ethylbenzene                        | 4.64 | 0.0250 | 5.00 | 0.0264 | 92.3 | 61-133 |  |  |  |
| Toluene                             | 4.84 | 0.0250 | 5.00 | 0.0757 | 95.3 | 61-130 |  |  |  |
| o-Xylene                            | 4.80 | 0.0250 | 5.00 | ND     | 96.0 | 63-131 |  |  |  |
| p,m-Xylene                          | 9.64 | 0.0500 | 10.0 | 0.0702 | 95.7 | 63-131 |  |  |  |
| Total Xylenes                       | 14.4 | 0.0250 | 15.0 | 0.0702 | 95.8 | 63-131 |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 8.15 |        | 8.00 |        | 102  | 70-130 |  |  |  |

Matrix Spike Dup (2327003-MSD1) Source: E306248-23 Prepared: 07/05/23 Analyzed: 07/05/23

|                                     |      |        |      |        |      |        |      |    |  |
|-------------------------------------|------|--------|------|--------|------|--------|------|----|--|
| Benzene                             | 4.93 | 0.0250 | 5.00 | ND     | 98.5 | 54-133 | 3.38 | 20 |  |
| Ethylbenzene                        | 4.79 | 0.0250 | 5.00 | 0.0264 | 95.4 | 61-133 | 3.20 | 20 |  |
| Toluene                             | 5.00 | 0.0250 | 5.00 | 0.0757 | 98.4 | 61-130 | 3.11 | 20 |  |
| o-Xylene                            | 4.96 | 0.0250 | 5.00 | ND     | 99.1 | 63-131 | 3.22 | 20 |  |
| p,m-Xylene                          | 9.95 | 0.0500 | 10.0 | 0.0702 | 98.8 | 63-131 | 3.19 | 20 |  |
| Total Xylenes                       | 14.9 | 0.0250 | 15.0 | 0.0702 | 98.9 | 63-131 | 3.20 | 20 |  |
| Surrogate: 4-Bromochlorobenzene-PID | 8.08 |        | 8.00 |        | 101  | 70-130 |      |    |  |





QC Summary Data

|                       |                  |                 |                     |
|-----------------------|------------------|-----------------|---------------------|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:           |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |                     |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo | 7/10/2023 3:06:14PM |

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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

Blank (2327003-BLK1) Prepared: 07/05/23 Analyzed: 07/05/23

|   |      |      |      |  |      |        |  |  |  |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | ND   | 20.0 |      |  |      |        |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 6.69 |      | 8.00 |  | 83.6 | 70-130 |  |  |  |

LCS (2327003-BS2) Prepared: 07/05/23 Analyzed: 07/05/23

|   |      |      |      |  |      |        |  |  |  |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | 48.4 | 20.0 | 50.0 |  | 96.8 | 70-130 |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.20 |      | 8.00 |  | 90.0 | 70-130 |  |  |  |

Matrix Spike (2327003-MS2) Source: E306248-23 Prepared: 07/05/23 Analyzed: 07/05/23

|   |      |      |      |    |      |        |  |  |  |
|---|------|------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | 48.7 | 20.0 | 50.0 | ND | 97.4 | 70-130 |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.02 |      | 8.00 |    | 87.7 | 70-130 |  |  |  |

Matrix Spike Dup (2327003-MSD2) Source: E306248-23 Prepared: 07/05/23 Analyzed: 07/05/23

|   |      |      |      |    |      |        |      |    |  |
|---|------|------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10)        | 47.4 | 20.0 | 50.0 | ND | 94.9 | 70-130 | 2.62 | 20 |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.02 |      | 8.00 |    | 87.8 | 70-130 |      |    |  |



QC Summary Data

|                       |                  |                 |                     |
|-----------------------|------------------|-----------------|---------------------|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:           |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |                     |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo | 7/10/2023 3:06:14PM |

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

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

|                                 |      |      |      |  |                                       |        |  |  |  |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| Blank (2327033-BLK1)            |      |      |      |  | Prepared: 07/06/23 Analyzed: 07/07/23 |        |  |  |  |
| Diesel Range Organics (C10-C28) | ND   | 25.0 |      |  |                                       |        |  |  |  |
| Oil Range Organics (C28-C36)    | ND   | 50.0 |      |  |                                       |        |  |  |  |
| Surrogate: n-Nonane             | 46.0 |      | 50.0 |  | 91.9                                  | 50-200 |  |  |  |

|                                 |      |      |      |  |                                       |        |  |  |  |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| LCS (2327033-BS1)               |      |      |      |  | Prepared: 07/06/23 Analyzed: 07/10/23 |        |  |  |  |
| Diesel Range Organics (C10-C28) | 239  | 25.0 | 250  |  | 95.6                                  | 38-132 |  |  |  |
| Surrogate: n-Nonane             | 45.4 |      | 50.0 |  | 90.8                                  | 50-200 |  |  |  |

|                                 |      |      |      |      |                    |        |                                       |  |  |
|---------------------------------|------|------|------|------|--------------------|--------|---------------------------------------|--|--|
| Matrix Spike (2327033-MS1)      |      |      |      |      | Source: E306236-04 |        | Prepared: 07/06/23 Analyzed: 07/07/23 |  |  |
| Diesel Range Organics (C10-C28) | 366  | 25.0 | 250  | 93.6 | 109                | 38-132 |                                       |  |  |
| Surrogate: n-Nonane             | 41.0 |      | 50.0 |      | 81.9               | 50-200 |                                       |  |  |

|                                 |      |      |      |      |                    |        |                                       |    |  |
|---------------------------------|------|------|------|------|--------------------|--------|---------------------------------------|----|--|
| Matrix Spike Dup (2327033-MSD1) |      |      |      |      | Source: E306236-04 |        | Prepared: 07/06/23 Analyzed: 07/07/23 |    |  |
| Diesel Range Organics (C10-C28) | 383  | 25.0 | 250  | 93.6 | 116                | 38-132 | 4.62                                  | 20 |  |
| Surrogate: n-Nonane             | 42.0 |      | 50.0 |      | 84.1               | 50-200 |                                       |    |  |



QC Summary Data

|                       |                  |                 |                     |
|-----------------------|------------------|-----------------|---------------------|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:           |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |                     |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo | 7/10/2023 3:06:14PM |

Anions by EPA 300.0/9056A

Analyst: BA

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

|                                 |     |      |     |      |                                       |        |                                       |    |  |
|---------------------------------|-----|------|-----|------|---------------------------------------|--------|---------------------------------------|----|--|
| Blank (2327028-BLK1)            |     |      |     |      | Prepared: 07/06/23 Analyzed: 07/07/23 |        |                                       |    |  |
| Chloride                        | ND  | 20.0 |     |      |                                       |        |                                       |    |  |
| LCS (2327028-BS1)               |     |      |     |      | Prepared: 07/06/23 Analyzed: 07/07/23 |        |                                       |    |  |
| Chloride                        | 253 | 20.0 | 250 |      | 101                                   | 90-110 |                                       |    |  |
| Matrix Spike (2327028-MS1)      |     |      |     |      | Source: E306247-01                    |        | Prepared: 07/06/23 Analyzed: 07/07/23 |    |  |
| Chloride                        | 277 | 20.0 | 250 | 28.9 | 99.3                                  | 80-120 |                                       |    |  |
| Matrix Spike Dup (2327028-MSD1) |     |      |     |      | Source: E306247-01                    |        | Prepared: 07/06/23 Analyzed: 07/07/23 |    |  |
| Chloride                        | 277 | 20.0 | 250 | 28.9 | 99.3                                  | 80-120 | 0.00794                               | 20 |  |

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



Definitions and Notes

|                       |                  |                 |                |
|-----------------------|------------------|-----------------|----------------|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        |                |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      | Reported:      |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo | 07/10/23 15:06 |

- 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: <u>Ram Ayres</u>  |                        |                     |  |  |                     |   |
| Relinquished by: (Signature)<br><u>[Signature]</u>  | Date<br><u>6/30/23</u> | Time<br><u>1000</u> | Received by: (Signature)<br><u>Michelle Gonzalez</u> | Date<br><u>6-30-23</u>   | Time<br><u>1000</u> | Lab Use Only<br>Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N   |
| Relinquished by: (Signature)<br><u>Michelle Gonzalez</u>  | Date<br><u>6-30-23</u> | Time<br><u>1615</u> | Received by: (Signature)<br><u>Andrew Muzzo</u>      | Date<br><u>6-30-23</u>   | Time<br><u>1700</u> | T1 _____ T2 _____ T3 _____  |
| Relinquished by: (Signature)<br><u>Andrew Muzzo</u>   | Date<br><u>6-30-23</u> | Time<br><u>2230</u> | Received by: (Signature)<br><u>Caitlin Man</u>       | Date<br><u>7/5/23</u>  | Time<br><u>8:00</u> | 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**

## Envirotech Analytical Laboratory

Printed: 7/5/2023 10:13:24AM

## 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:  | 07/05/23 08:00             | Work Order ID: | E306247      |
| Phone:  | (539) 573-4018               | Date Logged In: | 06/30/23 16:48             | Logged In By:  | Caitlin Mars |
| Email:  | ashley.giovengo@wesominc.com | Due Date:       | 07/11/23 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

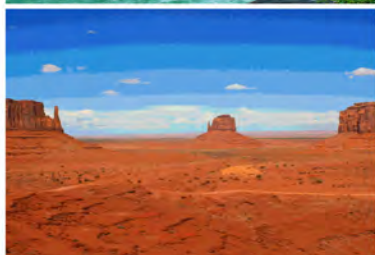


envirotech Inc.



Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 15-1

Work Order: E307121

Job Number: 01058-0007

Received: 7/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/27/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
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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: 7/27/23

Ashley Giovengo  
5315 Buena Vista Dr  
Carlsbad, NM 88220



Project Name: RDX 15-1  
Workorder: E307121  
Date Received: 7/24/2023 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2023 5:30:00AM, under the Project Name: RDX 15-1.

The analytical test results summarized in this report with the Project Name: RDX 15-1 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

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

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

|                       |                  |                 |                             |
|-----------------------|------------------|-----------------|-----------------------------|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:<br>07/27/23 13:35 |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |                             |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo |                             |

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| BH02 @ 3'        | E307121-01A   | Soil   | 07/18/23 | 07/24/23 | Glass Jar, 2 oz. |
| BH02 @ 4'        | E307121-02A   | Soil   | 07/18/23 | 07/24/23 | Glass Jar, 2 oz. |
| SS03 @ 0'        | E307121-03A   | Soil   | 07/18/23 | 07/24/23 | Glass Jar, 2 oz. |
| SS03A @ 0'       | E307121-04A   | Soil   | 07/18/23 | 07/24/23 | Glass Jar, 2 oz. |



Sample Data

|  |  |                                  |
|--|--|----------------------------------|
| WPX Energy - Carlsbad<br>5315 Buena Vista Dr<br>Carlsbad NM, 88220 | Project Name: RDX 15-1<br>Project Number: 01058-0007<br>Project Manager: Ashley Giovengo | Reported:<br>7/27/2023 1:35:59PM |
|--|--|----------------------------------|

BH02 @ 3'

E307121-01

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 | mg/kg  | mg/kg           | Analyst: IY |          | Batch: 2330013 |       |
| Benzene   | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| Toluene   | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 07/24/23 | 07/26/23       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| Surrogate: 4-Bromochlorobenzene-PID                   | 98.8 % | 70-130          |             | 07/24/23 | 07/26/23       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           | Analyst: IY |          | Batch: 2330013 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 07/24/23 | 07/26/23       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 83.2 % | 70-130          |             | 07/24/23 | 07/26/23       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           | Analyst: JL |          | Batch: 2330034 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 07/25/23 | 07/27/23       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 07/25/23 | 07/27/23       |       |
| Surrogate: n-Nonane                                   | 107 %  | 50-200          |             | 07/25/23 | 07/27/23       |       |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2330038 |       |
| Chloride  | 26.6   | 20.0            | 1           | 07/25/23 | 07/25/23       |       |





## Sample Data

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

Project Name: RDX 15-1  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
7/27/2023 1:35:59PM

SS03 @ 0'

E307121-03

| Analyte   | Result | Reporting Limit | Dilution | Prepared    | Analyzed | Notes          |
|---|--------|-----------------|----------|-------------|----------|----------------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: IY |          | Batch: 2330013 |
| Benzene   | ND     | 0.0250          | 1        | 07/24/23    | 07/26/23 |                |
| Ethylbenzene  | ND     | 0.0250          | 1        | 07/24/23    | 07/26/23 |                |
| Toluene   | ND     | 0.0250          | 1        | 07/24/23    | 07/26/23 |                |
| o-Xylene  | ND     | 0.0250          | 1        | 07/24/23    | 07/26/23 |                |
| p,m-Xylene  | ND     | 0.0500          | 1        | 07/24/23    | 07/26/23 |                |
| Total Xylenes   | ND     | 0.0250          | 1        | 07/24/23    | 07/26/23 |                |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i>            |        |                 |          |             |          |                |
|   | 99.7 % | 70-130          |          | 07/24/23    | 07/26/23 |                |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: IY |          | Batch: 2330013 |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1        | 07/24/23    | 07/26/23 |                |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>        |        |                 |          |             |          |                |
|   | 82.4 % | 70-130          |          | 07/24/23    | 07/26/23 |                |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: JL |          | Batch: 2330034 |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1        | 07/25/23    | 07/27/23 |                |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1        | 07/25/23    | 07/27/23 |                |
| <i>Surrogate: n-Nonane</i>                            |        |                 |          |             |          |                |
|   | 117 %  | 50-200          |          | 07/25/23    | 07/27/23 |                |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |          |             |          |                |
|   | mg/kg  | mg/kg           |          | Analyst: BA |          | Batch: 2330038 |
| Chloride  | 234    | 20.0            | 1        | 07/25/23    | 07/25/23 |                |



QC Summary Data

|                       |                  |                 |                     |
|-----------------------|------------------|-----------------|---------------------|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:           |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |                     |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo | 7/27/2023 1:35:59PM |

Volatile Organics by EPA 8021B

Analyst: IY

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

Blank (2330013-BLK1)

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

|                                     |      |        |      |  |     |        |  |  |  |
|-------------------------------------|------|--------|------|--|-----|--------|--|--|--|
| Benzene                             | ND   | 0.0250 |      |  |     |        |  |  |  |
| Ethylbenzene                        | ND   | 0.0250 |      |  |     |        |  |  |  |
| Toluene                             | ND   | 0.0250 |      |  |     |        |  |  |  |
| o-Xylene                            | ND   | 0.0250 |      |  |     |        |  |  |  |
| p,m-Xylene                          | ND   | 0.0500 |      |  |     |        |  |  |  |
| Total Xylenes                       | ND   | 0.0250 |      |  |     |        |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 8.03 |        | 8.00 |  | 100 | 70-130 |  |  |  |

LCS (2330013-BS1)

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

|                                     |      |        |      |  |      |        |  |  |  |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene                             | 4.76 | 0.0250 | 5.00 |  | 95.1 | 70-130 |  |  |  |
| Ethylbenzene                        | 4.61 | 0.0250 | 5.00 |  | 92.2 | 70-130 |  |  |  |
| Toluene                             | 4.77 | 0.0250 | 5.00 |  | 95.5 | 70-130 |  |  |  |
| o-Xylene                            | 4.78 | 0.0250 | 5.00 |  | 95.5 | 70-130 |  |  |  |
| p,m-Xylene                          | 9.53 | 0.0500 | 10.0 |  | 95.3 | 70-130 |  |  |  |
| Total Xylenes                       | 14.3 | 0.0250 | 15.0 |  | 95.4 | 70-130 |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 8.01 |        | 8.00 |  | 100  | 70-130 |  |  |  |

Matrix Spike (2330013-MS1)

Source: E307119-01

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

|                                     |      |        |      |    |      |        |  |  |  |
|-------------------------------------|------|--------|------|----|------|--------|--|--|--|
| Benzene                             | 4.80 | 0.0250 | 5.00 | ND | 96.0 | 54-133 |  |  |  |
| Ethylbenzene                        | 4.65 | 0.0250 | 5.00 | ND | 93.0 | 61-133 |  |  |  |
| Toluene                             | 4.82 | 0.0250 | 5.00 | ND | 96.4 | 61-130 |  |  |  |
| o-Xylene                            | 4.82 | 0.0250 | 5.00 | ND | 96.4 | 63-131 |  |  |  |
| p,m-Xylene                          | 9.62 | 0.0500 | 10.0 | ND | 96.2 | 63-131 |  |  |  |
| Total Xylenes                       | 14.4 | 0.0250 | 15.0 | ND | 96.3 | 63-131 |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 7.90 |        | 8.00 |    | 98.7 | 70-130 |  |  |  |

Matrix Spike Dup (2330013-MSD1)

Source: E307119-01

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

|                                     |      |        |      |    |      |        |      |    |  |
|-------------------------------------|------|--------|------|----|------|--------|------|----|--|
| Benzene                             | 4.67 | 0.0250 | 5.00 | ND | 93.5 | 54-133 | 2.68 | 20 |  |
| Ethylbenzene                        | 4.53 | 0.0250 | 5.00 | ND | 90.5 | 61-133 | 2.69 | 20 |  |
| Toluene                             | 4.68 | 0.0250 | 5.00 | ND | 93.6 | 61-130 | 2.89 | 20 |  |
| o-Xylene                            | 4.69 | 0.0250 | 5.00 | ND | 93.7 | 63-131 | 2.77 | 20 |  |
| p,m-Xylene                          | 9.35 | 0.0500 | 10.0 | ND | 93.5 | 63-131 | 2.82 | 20 |  |
| Total Xylenes                       | 14.0 | 0.0250 | 15.0 | ND | 93.6 | 63-131 | 2.80 | 20 |  |
| Surrogate: 4-Bromochlorobenzene-PID | 7.94 |        | 8.00 |    | 99.2 | 70-130 |      |    |  |



QC Summary Data

|                       |                  |                 |                     |
|-----------------------|------------------|-----------------|---------------------|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:           |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |                     |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo | 7/27/2023 1:35:59PM |

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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

Blank (2330013-BLK1) Prepared: 07/24/23 Analyzed: 07/26/23

|   |      |      |      |  |      |        |  |  |  |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | ND   | 20.0 |      |  |      |        |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 6.72 |      | 8.00 |  | 84.0 | 70-130 |  |  |  |

LCS (2330013-BS2) Prepared: 07/24/23 Analyzed: 07/26/23

|   |      |      |      |  |      |        |  |  |  |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | 42.3 | 20.0 | 50.0 |  | 84.5 | 70-130 |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 6.86 |      | 8.00 |  | 85.7 | 70-130 |  |  |  |

Matrix Spike (2330013-MS2) Source: E307119-01 Prepared: 07/24/23 Analyzed: 07/26/23

|   |      |      |      |    |      |        |  |  |  |
|---|------|------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | 42.6 | 20.0 | 50.0 | ND | 85.3 | 70-130 |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 6.64 |      | 8.00 |    | 82.9 | 70-130 |  |  |  |

Matrix Spike Dup (2330013-MSD2) Source: E307119-01 Prepared: 07/24/23 Analyzed: 07/26/23

|   |      |      |      |    |      |        |      |    |  |
|---|------|------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10)        | 39.7 | 20.0 | 50.0 | ND | 79.5 | 70-130 | 7.06 | 20 |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 6.74 |      | 8.00 |    | 84.3 | 70-130 |      |    |  |



QC Summary Data

|                       |                  |                 |                     |
|-----------------------|------------------|-----------------|---------------------|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:           |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |                     |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo | 7/27/2023 1:35:59PM |

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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

Blank (2330034-BLK1) Prepared: 07/25/23 Analyzed: 07/26/23

|                                 |      |      |      |  |     |        |  |  |  |
|---------------------------------|------|------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND   | 25.0 |      |  |     |        |  |  |  |
| Oil Range Organics (C28-C36)    | ND   | 50.0 |      |  |     |        |  |  |  |
| Surrogate: n-Nonane             | 53.7 |      | 50.0 |  | 107 | 50-200 |  |  |  |

LCS (2330034-BS1) Prepared: 07/25/23 Analyzed: 07/26/23

|                                 |      |      |      |  |     |        |  |  |  |
|---------------------------------|------|------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 290  | 25.0 | 250  |  | 116 | 38-132 |  |  |  |
| Surrogate: n-Nonane             | 57.0 |      | 50.0 |  | 114 | 50-200 |  |  |  |

Matrix Spike (2330034-MS1) Source: E307095-07 Prepared: 07/25/23 Analyzed: 07/26/23

|                                 |      |      |      |    |     |        |  |  |  |
|---------------------------------|------|------|------|----|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 301  | 25.0 | 250  | ND | 120 | 38-132 |  |  |  |
| Surrogate: n-Nonane             | 54.0 |      | 50.0 |    | 108 | 50-200 |  |  |  |

Matrix Spike Dup (2330034-MSD1) Source: E307095-07 Prepared: 07/25/23 Analyzed: 07/26/23

|                                 |      |      |      |    |     |        |      |    |  |
|---------------------------------|------|------|------|----|-----|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 279  | 25.0 | 250  | ND | 111 | 38-132 | 7.76 | 20 |  |
| Surrogate: n-Nonane             | 51.7 |      | 50.0 |    | 103 | 50-200 |      |    |  |





QC Summary Data

|                       |                  |                 |                     |
|-----------------------|------------------|-----------------|---------------------|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:           |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |                     |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo | 7/27/2023 1:35:59PM |

Anions by EPA 300.0/9056A

Analyst: BA

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

|                                 |     |      |     |    |                                       |        |                                       |    |  |
|---------------------------------|-----|------|-----|----|---------------------------------------|--------|---------------------------------------|----|--|
| Blank (2330038-BLK1)            |     |      |     |    | Prepared: 07/25/23 Analyzed: 07/25/23 |        |                                       |    |  |
| Chloride                        | ND  | 20.0 |     |    |                                       |        |                                       |    |  |
| LCS (2330038-BS1)               |     |      |     |    | Prepared: 07/25/23 Analyzed: 07/25/23 |        |                                       |    |  |
| Chloride                        | 261 | 20.0 | 250 |    | 105                                   | 90-110 |                                       |    |  |
| Matrix Spike (2330038-MS1)      |     |      |     |    | Source: E307094-01                    |        | Prepared: 07/25/23 Analyzed: 07/25/23 |    |  |
| Chloride                        | 274 | 20.0 | 250 | ND | 110                                   | 80-120 |                                       |    |  |
| Matrix Spike Dup (2330038-MSD1) |     |      |     |    | Source: E307094-01                    |        | Prepared: 07/25/23 Analyzed: 07/25/23 |    |  |
| Chloride                        | 273 | 20.0 | 250 | ND | 109                                   | 80-120 | 0.378                                 | 20 |  |

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



Definitions and Notes

|                       |                  |                 |                |
|-----------------------|------------------|-----------------|----------------|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        |                |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      | Reported:      |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo | 07/27/23 13:35 |

- 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: Ensolum LLC WPX Energy Permian LLC  |              |         |                   |                          |            | Bill To                              |              |                      |             |                |          |   | Lab Use Only  |  |  |  |                      |  |  |  | TAT |    |    |            | EPA Program |     |      |    |    |  |  |  |  |  |
| Project: RDX 15-1   |              |         |                   |                          |            | Attention: Jim Raley                 |              |                      |             |                |          |   | Lab WO# E307121   |  |  |  | Job Number 010580007 |  |  |  | 1D  | 2D | 3D | Standard X |             | CWA | SDWA |    |    |  |  |  |  |  |
| Project Manager: Ashley Giovengo  |              |         |                   |                          |            | Address: 5315 Buena Vista Dr         |              |                      |             |                |          |   | Analysis and Method   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
| Address: 3122 National Parks Hwy  |              |         |                   |                          |            | City, State, Zip: Carlsbad NM, 88220 |              |                      |             |                |          |   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
| City, State, Zip: Carlsbad NM, 88220  |              |         |                   |                          |            | Phone: (575)689-7597                 |              |                      |             |                |          |   | State   |  |  |  |                      |  |  |  |     |    |    |            | NM          | CO  | UT   | AZ | TX |  |  |  |  |  |
| Phone: 575-988-0055   |              |         |                   |                          |            | Email: jim.raley@dv.com              |              |                      |             |                |          |   |   |  |  |  |                      |  |  |  |     |    |    |            | X           |     |      |    |    |  |  |  |  |  |
| Email: agiovengo@ensolum.com  |              |         |                   |                          |            |                                      |              |                      |             |                |          |   |   |  |  |  |                      |  |  |  |     |    |    |            | Remarks     |     |      |    |    |  |  |  |  |  |
| Report due by:  |              |         |                   |                          |            |                                      |              |                      |             |                |          |   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
| Time Sampled  | Date Sampled | Matrix  | No. of Containers | Sample ID                | Lab Number | TPH GRO/DRO/ORO by 8015              | BTEX by 8021 | VOC by 8260          | Metals 6010 | Chloride 300.0 | BGDOC NM | GDOC TX   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
| 12:00   | 7/18/2023    | S       | 1                 | BH02 @ 3'                | 1          |                                      |              |                      |             |                | X        |   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
| 12:20   | 7/18/2023    | S       | 1                 | BH02 @ 4'                | 2          |                                      |              |                      |             |                | X        |   | Only run if BH02 @ 3 FT. is greater than 100 TPH or 600 Chlorides.  |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
| 11:30   | 7/18/2023    | S       | 1                 | SS03 @ 0'                | 3          |                                      |              |                      |             |                | X        |   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
| 11:40   | 7/18/2023    | S       | 1                 | SS03A @ 0'               | 4          |                                      |              |                      |             |                | X        |   | Only run if SS03A @ 0 ft. is greater than 100 TPH or 600 Chlorides. |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
|   |              |         |                   |                          |            |                                      |              |                      |             |                |          |   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
|   |              |         |                   |                          |            |                                      |              |                      |             |                |          |   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
|   |              |         |                   |                          |            |                                      |              |                      |             |                |          |   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
|   |              |         |                   |                          |            |                                      |              |                      |             |                |          |   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
|   |              |         |                   |                          |            |                                      |              |                      |             |                |          |   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
|   |              |         |                   |                          |            |                                      |              |                      |             |                |          |   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
|   |              |         |                   |                          |            |                                      |              |                      |             |                |          |   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
|   |              |         |                   |                          |            |                                      |              |                      |             |                |          |   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
| Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dv.com  |              |         |                   |                          |            |                                      |              |                      |             |                |          |   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
| I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.   |              |         |                   |                          |            |                                      |              |                      |             |                |          | Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
| Relinquished by: (Signature)  |              | Date    | Time              | Received by: (Signature) |            | Date                                 | Time         | Lab Use Only         |             |                |          |   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
| [Signature]   |              | 7-21-23 | 9:59              | Michelle Coughlin        |            | 7-21-23                              | 9:59         | Received on ice: Y N |             |                |          |   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
| Relinquished by: (Signature)  |              | Date    | Time              | Received by: (Signature) |            | Date                                 | Time         | T1 T2 T3             |             |                |          |   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
| Michelle Coughlin   |              | 7-21-23 | 1400              | [Signature] M.SS         |            | 7-21-23                              | 1700         |                      |             |                |          |   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
| Relinquished by: (Signature)  |              | Date    | Time              | Received by: (Signature) |            | Date                                 | Time         | AVG Temp °C          |             |                |          |   |   |  |  |  |                      |  |  |  |     |    |    |            |             |     |      |    |    |  |  |  |  |  |
| [Signature] M.SS  |              | 7-21-23 | 2300              | [Signature]              |            | 7-24-23                              | 530          | 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: 7/24/2023 8:08:38AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

|         |                              |                 |                            |                |              |
|---------|------------------------------|-----------------|----------------------------|----------------|--------------|
| Client: | WPX Energy - Carlsbad        | Date Received:  | 07/24/23 05:30             | Work Order ID: | E307121      |
| Phone:  | (539) 573-4018               | Date Logged In: | 07/21/23 15:44             | Logged In By:  | Caitlin Mars |
| Email:  | ashley.giovengo@wesominc.com | Due Date:       | 07/28/23 17:00 (4 day TAT) |                |              |

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

Comments on COC. Only run BH02 @ 4 if BH02@3 is greater than 100 TPH or 600 Chlorides.  
Only run SS03 @0 if SS03A@0 is greater than 100 TPH or 600 Chlorides.

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

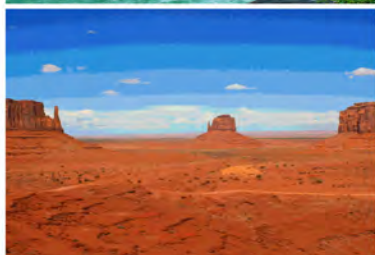


envirotech Inc.



Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 15-1

Work Order: E307122

Job Number: 01058-0007

Received: 7/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/28/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.



Date Reported: 7/28/23

Ashley Giovengo  
5315 Buena Vista Dr  
Carlsbad, NM 88220



Project Name: RDX 15-1  
Workorder: E307122  
Date Received: 7/24/2023 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2023 5:30:00AM, under the Project Name: RDX 15-1.

The analytical test results summarized in this report with the Project Name: RDX 15-1 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

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

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

|                       |                  |                 |                |
|-----------------------|------------------|-----------------|----------------|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:      |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |                |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo | 07/28/23 09:56 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| BH01 @ 0.5'      | E307122-01A   | Soil   | 07/18/23 | 07/24/23 | Glass Jar, 2 oz. |
| BH01 @ 2'        | E307122-02A   | Soil   | 07/18/23 | 07/24/23 | Glass Jar, 2 oz. |
| BH01 @ 4'        | E307122-03A   | Soil   | 07/18/23 | 07/24/23 | Glass Jar, 2 oz. |
| BH01 @ 6'        | E307122-04A   | Soil   | 07/18/23 | 07/24/23 | Glass Jar, 2 oz. |



Sample Data

|  |  |                                  |
|--|--|----------------------------------|
| WPX Energy - Carlsbad<br>5315 Buena Vista Dr<br>Carlsbad NM, 88220 | Project Name: RDX 15-1<br>Project Number: 01058-0007<br>Project Manager: Ashley Giovengo | Reported:<br>7/28/2023 9:56:42AM |
|--|--|----------------------------------|

BH01 @ 0.5'

E307122-01

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 | mg/kg  | mg/kg           | Analyst: IY |          | Batch: 2330013 |       |
| Benzene   | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| Toluene   | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 07/24/23 | 07/26/23       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| Surrogate: 4-Bromochlorobenzene-PID                   | 101 %  | 70-130          |             | 07/24/23 | 07/26/23       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           | Analyst: IY |          | Batch: 2330013 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 07/24/23 | 07/26/23       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 83.1 % | 70-130          |             | 07/24/23 | 07/26/23       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           | Analyst: KM |          | Batch: 2330050 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 07/25/23 | 07/26/23       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 07/25/23 | 07/26/23       |       |
| Surrogate: n-Nonane                                   | 103 %  | 50-200          |             | 07/25/23 | 07/26/23       |       |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2330038 |       |
| Chloride  | 619    | 20.0            | 1           | 07/25/23 | 07/25/23       |       |



Sample Data

|                       |                  |                 |   |
|-----------------------|------------------|-----------------|---|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | <b>Reported:</b><br>7/28/2023 9:56:42AM |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |   |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo |   |

BH01 @ 2'  
E307122-02

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 | mg/kg  | mg/kg           | Analyst: IY |          | Batch: 2330013 |       |
| Benzene   | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| Toluene   | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 07/24/23 | 07/26/23       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| Surrogate: 4-Bromochlorobenzene-PID                   | 100 %  | 70-130          |             | 07/24/23 | 07/26/23       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           | Analyst: IY |          | Batch: 2330013 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 07/24/23 | 07/26/23       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 83.0 % | 70-130          |             | 07/24/23 | 07/26/23       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           | Analyst: KM |          | Batch: 2330050 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 07/25/23 | 07/27/23       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 07/25/23 | 07/27/23       |       |
| Surrogate: n-Nonane                                   | 100 %  | 50-200          |             | 07/25/23 | 07/27/23       |       |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2330038 |       |
| Chloride  | 599    | 20.0            | 1           | 07/25/23 | 07/25/23       |       |





Sample Data

|                       |                  |                 |   |
|-----------------------|------------------|-----------------|---|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | <b>Reported:</b><br>7/28/2023 9:56:42AM |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |   |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo |   |

BH01 @ 4'  
E307122-03

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 | mg/kg  | mg/kg           | Analyst: IY |          | Batch: 2330013 |       |
| Benzene   | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| Toluene   | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 07/24/23 | 07/26/23       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| Surrogate: 4-Bromochlorobenzene-PID                   | 101 %  | 70-130          |             | 07/24/23 | 07/26/23       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           | Analyst: IY |          | Batch: 2330013 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 07/24/23 | 07/26/23       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 83.1 % | 70-130          |             | 07/24/23 | 07/26/23       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           | Analyst: KM |          | Batch: 2330050 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 07/25/23 | 07/27/23       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 07/25/23 | 07/27/23       |       |
| Surrogate: n-Nonane                                   | 105 %  | 50-200          |             | 07/25/23 | 07/27/23       |       |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2330038 |       |
| Chloride  | 1300   | 20.0            | 1           | 07/25/23 | 07/25/23       |       |



Sample Data

|                       |                  |                 |   |
|-----------------------|------------------|-----------------|---|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | <b>Reported:</b><br>7/28/2023 9:56:42AM |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |   |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo |   |

BH01 @ 6'  
E307122-04

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 | mg/kg  | mg/kg           | Analyst: IY |          | Batch: 2330013 |       |
| Benzene   | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| Ethylbenzene  | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| Toluene   | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| o-Xylene  | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| p,m-Xylene  | ND     | 0.0500          | 1           | 07/24/23 | 07/26/23       |       |
| Total Xylenes   | ND     | 0.0250          | 1           | 07/24/23 | 07/26/23       |       |
| Surrogate: 4-Bromochlorobenzene-PID                   | 100 %  | 70-130          |             | 07/24/23 | 07/26/23       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     | mg/kg  | mg/kg           | Analyst: IY |          | Batch: 2330013 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 20.0            | 1           | 07/24/23 | 07/26/23       |       |
| Surrogate: 1-Chloro-4-fluorobenzene-FID               | 83.0 % | 70-130          |             | 07/24/23 | 07/26/23       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> | mg/kg  | mg/kg           | Analyst: KM |          | Batch: 2330050 |       |
| Diesel Range Organics (C10-C28)                       | ND     | 25.0            | 1           | 07/25/23 | 07/27/23       |       |
| Oil Range Organics (C28-C36)                          | ND     | 50.0            | 1           | 07/25/23 | 07/27/23       |       |
| Surrogate: n-Nonane                                   | 103 %  | 50-200          |             | 07/25/23 | 07/27/23       |       |
| <b>Anions by EPA 300.0/9056A</b>                      | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2330038 |       |
| Chloride  | 2210   | 20.0            | 1           | 07/25/23 | 07/25/23       |       |



QC Summary Data

|                       |                  |                 |                     |
|-----------------------|------------------|-----------------|---------------------|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:           |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |                     |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo | 7/28/2023 9:56:42AM |

Volatile Organics by EPA 8021B

Analyst: IY

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

Blank (2330013-BLK1) Prepared: 07/24/23 Analyzed: 07/26/23

|                                     |      |        |      |  |     |        |  |  |  |
|-------------------------------------|------|--------|------|--|-----|--------|--|--|--|
| Benzene                             | ND   | 0.0250 |      |  |     |        |  |  |  |
| Ethylbenzene                        | ND   | 0.0250 |      |  |     |        |  |  |  |
| Toluene                             | ND   | 0.0250 |      |  |     |        |  |  |  |
| o-Xylene                            | ND   | 0.0250 |      |  |     |        |  |  |  |
| p,m-Xylene                          | ND   | 0.0500 |      |  |     |        |  |  |  |
| Total Xylenes                       | ND   | 0.0250 |      |  |     |        |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 8.03 |        | 8.00 |  | 100 | 70-130 |  |  |  |

LCS (2330013-BS1) Prepared: 07/24/23 Analyzed: 07/26/23

|                                     |      |        |      |  |      |        |  |  |  |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene                             | 4.76 | 0.0250 | 5.00 |  | 95.1 | 70-130 |  |  |  |
| Ethylbenzene                        | 4.61 | 0.0250 | 5.00 |  | 92.2 | 70-130 |  |  |  |
| Toluene                             | 4.77 | 0.0250 | 5.00 |  | 95.5 | 70-130 |  |  |  |
| o-Xylene                            | 4.78 | 0.0250 | 5.00 |  | 95.5 | 70-130 |  |  |  |
| p,m-Xylene                          | 9.53 | 0.0500 | 10.0 |  | 95.3 | 70-130 |  |  |  |
| Total Xylenes                       | 14.3 | 0.0250 | 15.0 |  | 95.4 | 70-130 |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 8.01 |        | 8.00 |  | 100  | 70-130 |  |  |  |

Matrix Spike (2330013-MS1) Source: E307119-01 Prepared: 07/24/23 Analyzed: 07/26/23

|                                     |      |        |      |    |      |        |  |  |  |
|-------------------------------------|------|--------|------|----|------|--------|--|--|--|
| Benzene                             | 4.80 | 0.0250 | 5.00 | ND | 96.0 | 54-133 |  |  |  |
| Ethylbenzene                        | 4.65 | 0.0250 | 5.00 | ND | 93.0 | 61-133 |  |  |  |
| Toluene                             | 4.82 | 0.0250 | 5.00 | ND | 96.4 | 61-130 |  |  |  |
| o-Xylene                            | 4.82 | 0.0250 | 5.00 | ND | 96.4 | 63-131 |  |  |  |
| p,m-Xylene                          | 9.62 | 0.0500 | 10.0 | ND | 96.2 | 63-131 |  |  |  |
| Total Xylenes                       | 14.4 | 0.0250 | 15.0 | ND | 96.3 | 63-131 |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 7.90 |        | 8.00 |    | 98.7 | 70-130 |  |  |  |

Matrix Spike Dup (2330013-MSD1) Source: E307119-01 Prepared: 07/24/23 Analyzed: 07/26/23

|                                     |      |        |      |    |      |        |      |    |  |
|-------------------------------------|------|--------|------|----|------|--------|------|----|--|
| Benzene                             | 4.67 | 0.0250 | 5.00 | ND | 93.5 | 54-133 | 2.68 | 20 |  |
| Ethylbenzene                        | 4.53 | 0.0250 | 5.00 | ND | 90.5 | 61-133 | 2.69 | 20 |  |
| Toluene                             | 4.68 | 0.0250 | 5.00 | ND | 93.6 | 61-130 | 2.89 | 20 |  |
| o-Xylene                            | 4.69 | 0.0250 | 5.00 | ND | 93.7 | 63-131 | 2.77 | 20 |  |
| p,m-Xylene                          | 9.35 | 0.0500 | 10.0 | ND | 93.5 | 63-131 | 2.82 | 20 |  |
| Total Xylenes                       | 14.0 | 0.0250 | 15.0 | ND | 93.6 | 63-131 | 2.80 | 20 |  |
| Surrogate: 4-Bromochlorobenzene-PID | 7.94 |        | 8.00 |    | 99.2 | 70-130 |      |    |  |



QC Summary Data

|                       |                  |                 |                     |
|-----------------------|------------------|-----------------|---------------------|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:           |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |                     |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo | 7/28/2023 9:56:42AM |

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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

Blank (2330013-BLK1) Prepared: 07/24/23 Analyzed: 07/26/23

|   |      |      |      |  |      |        |  |  |  |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | ND   | 20.0 |      |  |      |        |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 6.72 |      | 8.00 |  | 84.0 | 70-130 |  |  |  |

LCS (2330013-BS2) Prepared: 07/24/23 Analyzed: 07/26/23

|   |      |      |      |  |      |        |  |  |  |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | 42.3 | 20.0 | 50.0 |  | 84.5 | 70-130 |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 6.86 |      | 8.00 |  | 85.7 | 70-130 |  |  |  |

Matrix Spike (2330013-MS2) Source: E307119-01 Prepared: 07/24/23 Analyzed: 07/26/23

|   |      |      |      |    |      |        |  |  |  |
|---|------|------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | 42.6 | 20.0 | 50.0 | ND | 85.3 | 70-130 |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 6.64 |      | 8.00 |    | 82.9 | 70-130 |  |  |  |

Matrix Spike Dup (2330013-MSD2) Source: E307119-01 Prepared: 07/24/23 Analyzed: 07/26/23

|   |      |      |      |    |      |        |      |    |  |
|---|------|------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10)        | 39.7 | 20.0 | 50.0 | ND | 79.5 | 70-130 | 7.06 | 20 |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 6.74 |      | 8.00 |    | 84.3 | 70-130 |      |    |  |



QC Summary Data

|                       |                  |                 |                     |
|-----------------------|------------------|-----------------|---------------------|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:           |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |                     |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo | 7/28/2023 9:56:42AM |

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

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

|                                 |      |      |      |  |                                       |        |  |  |  |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| Blank (2330050-BLK1)            |      |      |      |  | Prepared: 07/25/23 Analyzed: 07/26/23 |        |  |  |  |
| Diesel Range Organics (C10-C28) | ND   | 25.0 |      |  |                                       |        |  |  |  |
| Oil Range Organics (C28-C36)    | ND   | 50.0 |      |  |                                       |        |  |  |  |
| Surrogate: n-Nonane             | 50.7 |      | 50.0 |  | 101                                   | 50-200 |  |  |  |

|                                 |      |      |      |  |                                       |        |  |  |  |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| LCS (2330050-BS1)               |      |      |      |  | Prepared: 07/25/23 Analyzed: 07/26/23 |        |  |  |  |
| Diesel Range Organics (C10-C28) | 272  | 25.0 | 250  |  | 109                                   | 38-132 |  |  |  |
| Surrogate: n-Nonane             | 53.4 |      | 50.0 |  | 107                                   | 50-200 |  |  |  |

|                                 |      |      |      |                    |      |                                       |  |  |  |
|---------------------------------|------|------|------|--------------------|------|---------------------------------------|--|--|--|
| Matrix Spike (2330050-MS1)      |      |      |      | Source: E307123-33 |      | Prepared: 07/25/23 Analyzed: 07/26/23 |  |  |  |
| Diesel Range Organics (C10-C28) | 271  | 25.0 | 250  | ND                 | 109  | 38-132                                |  |  |  |
| Surrogate: n-Nonane             | 46.9 |      | 50.0 |                    | 93.9 | 50-200                                |  |  |  |

|                                 |      |      |      |                    |      |                                       |      |    |  |
|---------------------------------|------|------|------|--------------------|------|---------------------------------------|------|----|--|
| Matrix Spike Dup (2330050-MSD1) |      |      |      | Source: E307123-33 |      | Prepared: 07/25/23 Analyzed: 07/26/23 |      |    |  |
| Diesel Range Organics (C10-C28) | 276  | 25.0 | 250  | ND                 | 110  | 38-132                                | 1.70 | 20 |  |
| Surrogate: n-Nonane             | 47.9 |      | 50.0 |                    | 95.9 | 50-200                                |      |    |  |





QC Summary Data

|                       |                  |                 |                     |
|-----------------------|------------------|-----------------|---------------------|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:           |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      |                     |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo | 7/28/2023 9:56:42AM |

Anions by EPA 300.0/9056A

Analyst: BA

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

|                                 |     |      |     |    |                                       |        |                                       |    |  |
|---------------------------------|-----|------|-----|----|---------------------------------------|--------|---------------------------------------|----|--|
| Blank (2330038-BLK1)            |     |      |     |    | Prepared: 07/25/23 Analyzed: 07/25/23 |        |                                       |    |  |
| Chloride                        | ND  | 20.0 |     |    |                                       |        |                                       |    |  |
| LCS (2330038-BS1)               |     |      |     |    | Prepared: 07/25/23 Analyzed: 07/25/23 |        |                                       |    |  |
| Chloride                        | 261 | 20.0 | 250 |    | 105                                   | 90-110 |                                       |    |  |
| Matrix Spike (2330038-MS1)      |     |      |     |    | Source: E307094-01                    |        | Prepared: 07/25/23 Analyzed: 07/25/23 |    |  |
| Chloride                        | 274 | 20.0 | 250 | ND | 110                                   | 80-120 |                                       |    |  |
| Matrix Spike Dup (2330038-MSD1) |     |      |     |    | Source: E307094-01                    |        | Prepared: 07/25/23 Analyzed: 07/25/23 |    |  |
| Chloride                        | 273 | 20.0 | 250 | ND | 109                                   | 80-120 | 0.378                                 | 20 |  |

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



Definitions and Notes

|                       |                  |                 |                |
|-----------------------|------------------|-----------------|----------------|
| WPX Energy - Carlsbad | Project Name:    | RDX 15-1        |                |
| 5315 Buena Vista Dr   | Project Number:  | 01058-0007      | Reported:      |
| Carlsbad NM, 88220    | Project Manager: | Ashley Giovengo | 07/28/23 09:56 |

- 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.



|   |              |         |                   |                                      |            |         |      |   |              |             |             |   |    |          |          |             |      |         |      |    |  |  |
|---|--------------|---------|-------------------|--------------------------------------|------------|---------|------|---|--------------|-------------|-------------|---|----|----------|----------|-------------|------|---------|------|----|--|--|
| Client: Ensolum, LLC. WPA Energy Permian LLC  |              |         |                   | Bill To                              |            |         |      | Lab Use Only  |              |             |             | TAT   |    |          |          | EPA Program |      |         |      |    |  |  |
| Project: RDX 15-1   |              |         |                   | Attention: Jim Raley                 |            |         |      | Lab WO#   |              | Job Number  |             | 1D  | 2D | 3D       | Standard | CWA         | SDWA |         |      |    |  |  |
| Project Manager: Ashley Gioveno   |              |         |                   | Address: 5315 Buena Vista Dr         |            |         |      | E307122   |              | 010580007   |             |   |    |          | X        |             |      |         |      |    |  |  |
| Address: 3122 National Parks Hwy  |              |         |                   | City, State, Zip: Carlsbad NM, 88220 |            |         |      | Analysis and Method   |              |             |             |   |    |          |          |             |      |         | RCRA |    |  |  |
| City, State, Zip: Carlsbad NM, 88220  |              |         |                   | Phone: (575)689-7597                 |            |         |      | TPH GRO/DRO/ORO by 8015   | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0  |    | BGDOC NM | GDOC TX  | State       |      |         |      |    |  |  |
| Phone: 575-988-0055   |              |         |                   | Email: jim.raley@dvn.com             |            |         |      |   |              |             |             |   |    |          |          | NM          | CO   | UT      | AZ   | TX |  |  |
| Email: agioveno@ensolum.com   |              |         |                   |                                      |            |         |      |   |              |             |             |   |    |          |          | X           |      |         |      |    |  |  |
| Report due by:  |              |         |                   |                                      |            |         |      |   |              |             |             |   |    |          |          |             |      | Remarks |      |    |  |  |
| Time Sampled  | Date Sampled | Matrix  | No. of Containers | Sample ID                            | Lab Number |         |      |   |              |             |             |   |    |          |          |             |      |         |      |    |  |  |
| 12:00   | 7/18/2023    | S       | 1                 | BH01 @ 0.5'                          | 1          |         |      |   |              |             |             |   |    | X        |          |             |      |         |      |    |  |  |
| 12:20   | 7/18/2023    | S       | 1                 | BH01 @ 2'                            | 2          |         |      |   |              |             |             |   |    | X        |          |             |      |         |      |    |  |  |
| 12:26   | 7/18/2023    | S       | 1                 | BH01 @ 4'                            | 3          |         |      |   |              |             |             |   |    | X        |          |             |      |         |      |    |  |  |
| 12:30   | 7/18/2023    | S       | 1                 | BH01 @ 6'                            | 4          |         |      |   |              |             |             |   |    | X        |          |             |      |         |      |    |  |  |
|   |              |         |                   |                                      |            |         |      |   |              |             |             |   |    |          |          |             |      |         |      |    |  |  |
|   |              |         |                   |                                      |            |         |      |   |              |             |             |   |    |          |          |             |      |         |      |    |  |  |
|   |              |         |                   |                                      |            |         |      |   |              |             |             |   |    |          |          |             |      |         |      |    |  |  |
|   |              |         |                   |                                      |            |         |      |   |              |             |             |   |    |          |          |             |      |         |      |    |  |  |
|   |              |         |                   |                                      |            |         |      |   |              |             |             |   |    |          |          |             |      |         |      |    |  |  |
|   |              |         |                   |                                      |            |         |      |   |              |             |             |   |    |          |          |             |      |         |      |    |  |  |
|   |              |         |                   |                                      |            |         |      |   |              |             |             |   |    |          |          |             |      |         |      |    |  |  |
| Additional Instructions: Please CC: cburton@ensolum.com, agioveno@ensolum.com, jim.raley@dvn.com  |              |         |                   |                                      |            |         |      |   |              |             |             |   |    |          |          |             |      |         |      |    |  |  |
| 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:   |              |         |                   |                                      |            |         |      |   |              |             |             | Lab Use Only  |    |          |          |             |      |         |      |    |  |  |
| Relinquished by: (Signature)  |              | Date    | Time              | Received by: (Signature)             |            | Date    | Time | Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N |              |             |             |   |    |          |          |             |      |         |      |    |  |  |
| Michelle Campbell   |              | 7-21-23 | 9:59              | Michelle Campbell                    |            | 7-21-23 | 9:59 |   |              |             |             |   |    |          |          |             |      |         |      |    |  |  |
| Michelle Campbell   |              | 7-21-23 | 1400              | Michelle Campbell                    |            | 7-21-23 | 1700 | T1 T2 T3  |              |             |             |   |    |          |          |             |      |         |      |    |  |  |
| Michelle Campbell   |              | 7-21-23 | 2300              | Michelle Campbell                    |            | 7-21-23 | 5:30 | 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: 7/24/2023 8:10:49AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

|         |                              |                 |                            |                |              |
|---------|------------------------------|-----------------|----------------------------|----------------|--------------|
| Client: | WPX Energy - Carlsbad        | Date Received:  | 07/24/23 05:30             | Work Order ID: | E307122      |
| Phone:  | (539) 573-4018               | Date Logged In: | 07/21/23 15:45             | Logged In By:  | Caitlin Mars |
| Email:  | ashley.giovengo@wesominc.com | Due Date:       | 07/28/23 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:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: RDX 15-1

Work Order: E308008

Job Number: 01058-0007

Received: 8/2/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/7/23

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: 8/7/23

Ashley Giovengo  
6488 7 Rivers Hwy  
Artesia, NM 88210



Project Name: RDX 15-1  
Workorder: E308008  
Date Received: 8/2/2023 6:32:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/2/2023 6:32:00AM, under the Project Name: RDX 15-1.

The analytical test results summarized in this report with the Project Name: RDX 15-1 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

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

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

|                         |                  |                 |                |
|-------------------------|------------------|-----------------|----------------|
| Devon Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:      |
| 6488 7 Rivers Hwy       | Project Number:  | 01058-0007      |                |
| Artesia NM, 88210       | Project Manager: | Ashley Giovengo | 08/07/23 08:21 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| BH02 - 0'        | E308008-01A   | Soil   | 07/31/23 | 08/02/23 | Glass Jar, 2 oz. |



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: RDX 15-1  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
8/7/2023 8:21:47AM

BH02 - 0'

E308008-01

| Analyte   | Result | Reporting Limit | Dilution    | Prepared | Analyzed       | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| <b>Volatile Organics by EPA 8021B</b>                 |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: IY |          | Batch: 2331048 |       |
| Benzene   | ND     | 0.0500          | 2           | 08/02/23 | 08/03/23       |       |
| Ethylbenzene  | ND     | 0.0500          | 2           | 08/02/23 | 08/03/23       |       |
| Toluene   | ND     | 0.0500          | 2           | 08/02/23 | 08/03/23       |       |
| o-Xylene  | ND     | 0.0500          | 2           | 08/02/23 | 08/03/23       |       |
| p,m-Xylene  | ND     | 0.100           | 2           | 08/02/23 | 08/03/23       |       |
| Total Xylenes   | ND     | 0.0500          | 2           | 08/02/23 | 08/03/23       |       |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i>            |        |                 |             |          |                |       |
|   | 91.7 % | 70-130          |             | 08/02/23 | 08/03/23       |       |
| <b>Nonhalogenated Organics by EPA 8015D - GRO</b>     |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: IY |          | Batch: 2331048 |       |
| Gasoline Range Organics (C6-C10)                      | ND     | 40.0            | 2           | 08/02/23 | 08/03/23       |       |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>        |        |                 |             |          |                |       |
|   | 86.6 % | 70-130          |             | 08/02/23 | 08/03/23       |       |
| <b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b> |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: KM |          | Batch: 2331043 |       |
| Diesel Range Organics (C10-C28)                       | 20200  | 2500            | 100         | 08/01/23 | 08/04/23       |       |
| Oil Range Organics (C28-C36)                          | 11400  | 5000            | 100         | 08/01/23 | 08/04/23       |       |
| <i>Surrogate: n-Nonane</i>                            |        |                 |             |          |                |       |
|   | 115 %  | 50-200          |             | 08/01/23 | 08/04/23       |       |
| <b>Anions by EPA 300.0/9056A</b>                      |        |                 |             |          |                |       |
|   | mg/kg  | mg/kg           | Analyst: BA |          | Batch: 2331051 |       |
| Chloride  | 5010   | 40.0            | 2           | 08/02/23 | 08/04/23       |       |



QC Summary Data

|                         |                  |                 |                    |
|-------------------------|------------------|-----------------|--------------------|
| Devon Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:          |
| 6488 7 Rivers Hwy       | Project Number:  | 01058-0007      |                    |
| Artesia NM, 88210       | Project Manager: | Ashley Giovengo | 8/7/2023 8:21:47AM |

Volatile Organics by EPA 8021B

Analyst: IY

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

Blank (2331048-BLK1) Prepared: 08/02/23 Analyzed: 08/02/23

|                                     |      |        |      |  |      |        |  |  |  |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene                             | ND   | 0.0250 |      |  |      |        |  |  |  |
| Ethylbenzene                        | ND   | 0.0250 |      |  |      |        |  |  |  |
| Toluene                             | ND   | 0.0250 |      |  |      |        |  |  |  |
| o-Xylene                            | ND   | 0.0250 |      |  |      |        |  |  |  |
| p,m-Xylene                          | ND   | 0.0500 |      |  |      |        |  |  |  |
| Total Xylenes                       | ND   | 0.0250 |      |  |      |        |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 7.61 |        | 8.00 |  | 95.1 | 70-130 |  |  |  |

LCS (2331048-BS1) Prepared: 08/02/23 Analyzed: 08/02/23

|                                     |      |        |      |  |      |        |  |  |  |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene                             | 4.98 | 0.0250 | 5.00 |  | 99.7 | 70-130 |  |  |  |
| Ethylbenzene                        | 4.95 | 0.0250 | 5.00 |  | 99.0 | 70-130 |  |  |  |
| Toluene                             | 5.01 | 0.0250 | 5.00 |  | 100  | 70-130 |  |  |  |
| o-Xylene                            | 4.94 | 0.0250 | 5.00 |  | 98.8 | 70-130 |  |  |  |
| p,m-Xylene                          | 10.1 | 0.0500 | 10.0 |  | 101  | 70-130 |  |  |  |
| Total Xylenes                       | 15.0 | 0.0250 | 15.0 |  | 100  | 70-130 |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 7.54 |        | 8.00 |  | 94.2 | 70-130 |  |  |  |

Matrix Spike (2331048-MS1) Source: E308007-01 Prepared: 08/02/23 Analyzed: 08/02/23

|                                     |      |        |      |    |      |        |  |  |  |
|-------------------------------------|------|--------|------|----|------|--------|--|--|--|
| Benzene                             | 5.21 | 0.0250 | 5.00 | ND | 104  | 54-133 |  |  |  |
| Ethylbenzene                        | 5.19 | 0.0250 | 5.00 | ND | 104  | 61-133 |  |  |  |
| Toluene                             | 5.25 | 0.0250 | 5.00 | ND | 105  | 61-130 |  |  |  |
| o-Xylene                            | 5.19 | 0.0250 | 5.00 | ND | 104  | 63-131 |  |  |  |
| p,m-Xylene                          | 10.6 | 0.0500 | 10.0 | ND | 106  | 63-131 |  |  |  |
| Total Xylenes                       | 15.8 | 0.0250 | 15.0 | ND | 105  | 63-131 |  |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 7.63 |        | 8.00 |    | 95.4 | 70-130 |  |  |  |

Matrix Spike Dup (2331048-MSD1) Source: E308007-01 Prepared: 08/02/23 Analyzed: 08/02/23

|                                     |      |        |      |    |      |        |      |    |  |
|-------------------------------------|------|--------|------|----|------|--------|------|----|--|
| Benzene                             | 5.05 | 0.0250 | 5.00 | ND | 101  | 54-133 | 3.21 | 20 |  |
| Ethylbenzene                        | 5.02 | 0.0250 | 5.00 | ND | 100  | 61-133 | 3.25 | 20 |  |
| Toluene                             | 5.08 | 0.0250 | 5.00 | ND | 102  | 61-130 | 3.34 | 20 |  |
| o-Xylene                            | 5.03 | 0.0250 | 5.00 | ND | 101  | 63-131 | 3.22 | 20 |  |
| p,m-Xylene                          | 10.2 | 0.0500 | 10.0 | ND | 102  | 63-131 | 3.21 | 20 |  |
| Total Xylenes                       | 15.3 | 0.0250 | 15.0 | ND | 102  | 63-131 | 3.21 | 20 |  |
| Surrogate: 4-Bromochlorobenzene-PID | 7.53 |        | 8.00 |    | 94.1 | 70-130 |      |    |  |



QC Summary Data

|                         |                  |                 |                    |
|-------------------------|------------------|-----------------|--------------------|
| Devon Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:          |
| 6488 7 Rivers Hwy       | Project Number:  | 01058-0007      |                    |
| Artesia NM, 88210       | Project Manager: | Ashley Giovengo | 8/7/2023 8:21:47AM |

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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

Blank (2331048-BLK1) Prepared: 08/02/23 Analyzed: 08/02/23

|   |      |      |      |  |      |        |  |  |  |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | ND   | 20.0 |      |  |      |        |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.06 |      | 8.00 |  | 88.3 | 70-130 |  |  |  |

LCS (2331048-BS2) Prepared: 08/02/23 Analyzed: 08/02/23

|   |      |      |      |  |      |        |  |  |  |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | 46.4 | 20.0 | 50.0 |  | 92.9 | 70-130 |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.24 |      | 8.00 |  | 90.4 | 70-130 |  |  |  |

Matrix Spike (2331048-MS2) Source: E308007-01 Prepared: 08/02/23 Analyzed: 08/03/23

|   |      |      |      |    |      |        |  |  |  |
|---|------|------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | 57.4 | 20.0 | 50.0 | ND | 115  | 70-130 |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.21 |      | 8.00 |    | 90.1 | 70-130 |  |  |  |

Matrix Spike Dup (2331048-MSD2) Source: E308007-01 Prepared: 08/02/23 Analyzed: 08/03/23

|   |      |      |      |    |      |        |      |    |  |
|---|------|------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10)        | 47.2 | 20.0 | 50.0 | ND | 94.4 | 70-130 | 19.6 | 20 |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.33 |      | 8.00 |    | 91.6 | 70-130 |      |    |  |





QC Summary Data

|                         |                  |                 |                    |
|-------------------------|------------------|-----------------|--------------------|
| Devon Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:          |
| 6488 7 Rivers Hwy       | Project Number:  | 01058-0007      |                    |
| Artesia NM, 88210       | Project Manager: | Ashley Giovengo | 8/7/2023 8:21:47AM |

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

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

|                                 |      |      |      |  |                                       |        |  |  |  |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| Blank (2331043-BLK1)            |      |      |      |  | Prepared: 08/01/23 Analyzed: 08/02/23 |        |  |  |  |
| Diesel Range Organics (C10-C28) | ND   | 25.0 |      |  |                                       |        |  |  |  |
| Oil Range Organics (C28-C36)    | ND   | 50.0 |      |  |                                       |        |  |  |  |
| Surrogate: n-Nonane             | 47.9 |      | 50.0 |  | 95.8                                  | 50-200 |  |  |  |

|                                 |      |      |      |  |                                       |        |  |  |  |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| LCS (2331043-BS1)               |      |      |      |  | Prepared: 08/01/23 Analyzed: 08/02/23 |        |  |  |  |
| Diesel Range Organics (C10-C28) | 244  | 25.0 | 250  |  | 97.6                                  | 38-132 |  |  |  |
| Surrogate: n-Nonane             | 48.0 |      | 50.0 |  | 95.9                                  | 50-200 |  |  |  |

|                                 |      |      |      |    |                    |        |                                       |  |  |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|--|--|
| Matrix Spike (2331043-MS1)      |      |      |      |    | Source: E308006-24 |        | Prepared: 08/01/23 Analyzed: 08/02/23 |  |  |
| Diesel Range Organics (C10-C28) | 251  | 25.0 | 250  | ND | 101                | 38-132 |                                       |  |  |
| Surrogate: n-Nonane             | 49.1 |      | 50.0 |    | 98.1               | 50-200 |                                       |  |  |

|                                 |      |      |      |    |                    |        |                                       |    |  |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|----|--|
| Matrix Spike Dup (2331043-MSD1) |      |      |      |    | Source: E308006-24 |        | Prepared: 08/01/23 Analyzed: 08/02/23 |    |  |
| Diesel Range Organics (C10-C28) | 250  | 25.0 | 250  | ND | 100                | 38-132 | 0.469                                 | 20 |  |
| Surrogate: n-Nonane             | 49.0 |      | 50.0 |    | 98.0               | 50-200 |                                       |    |  |



QC Summary Data

|                         |                  |                 |                    |
|-------------------------|------------------|-----------------|--------------------|
| Devon Energy - Carlsbad | Project Name:    | RDX 15-1        | Reported:          |
| 6488 7 Rivers Hwy       | Project Number:  | 01058-0007      |                    |
| Artesia NM, 88210       | Project Manager: | Ashley Giovengo | 8/7/2023 8:21:47AM |

Anions by EPA 300.0/9056A

Analyst: BA

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

|                                 |      |      |     |      |                                       |        |                                       |    |    |
|---------------------------------|------|------|-----|------|---------------------------------------|--------|---------------------------------------|----|----|
| Blank (2331051-BLK1)            |      |      |     |      | Prepared: 08/02/23 Analyzed: 08/04/23 |        |                                       |    |    |
| Chloride                        | ND   | 20.0 |     |      |                                       |        |                                       |    |    |
| LCS (2331051-BS1)               |      |      |     |      | Prepared: 08/02/23 Analyzed: 08/04/23 |        |                                       |    |    |
| Chloride                        | 252  | 20.0 | 250 |      | 101                                   | 90-110 |                                       |    |    |
| Matrix Spike (2331051-MS1)      |      |      |     |      | Source: E307179-01                    |        | Prepared: 08/02/23 Analyzed: 08/04/23 |    |    |
| Chloride                        | 3030 | 20.0 | 250 | 2620 | 162                                   | 80-120 |                                       |    | M2 |
| Matrix Spike Dup (2331051-MSD1) |      |      |     |      | Source: E307179-01                    |        | Prepared: 08/02/23 Analyzed: 08/04/23 |    |    |
| Chloride                        | 3250 | 20.0 | 250 | 2620 | 248                                   | 80-120 | 6.90                                  | 20 | M2 |

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

|                         |                  |                 |                |
|-------------------------|------------------|-----------------|----------------|
| Devon Energy - Carlsbad | Project Name:    | RDX 15-1        |                |
| 6488 7 Rivers Hwy       | Project Number:  | 01058-0007      | Reported:      |
| Artesia NM, 88210       | Project Manager: | Ashley Giovengo | 08/07/23 08:21 |

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- 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]



## Envirotech Analytical Laboratory

Printed: 8/2/2023 7:37:56AM

## 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: | Devon Energy - Carlsbad       | Date Received:  | 08/02/23 06:32             | Work Order ID: | E308008      |
| Phone:  | (505) 382-1211                | Date Logged In: | 08/02/23 06:59             | Logged In By:  | Caitlin Mars |
| Email:  | ashley.giovengo@wescominc.com | Due Date:       | 08/08/23 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? No

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 B

### Email Correspondence

---



**From:** [Ashley Giovengo](#)  
**To:** [Cole Burton](#); [Dan Moir](#)  
**Subject:** FW: [EXTERNAL] WPX - RDX 15 #001 - Incident Number nAB1817138256  
**Date:** Monday, January 22, 2024 12:36:05 PM  
**Attachments:** [image005.png](#)  
[image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)  
[image010.png](#)

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**Ashley Giovengo**

Senior Engineer

575-988-0055

Ensolum, LLC

in f

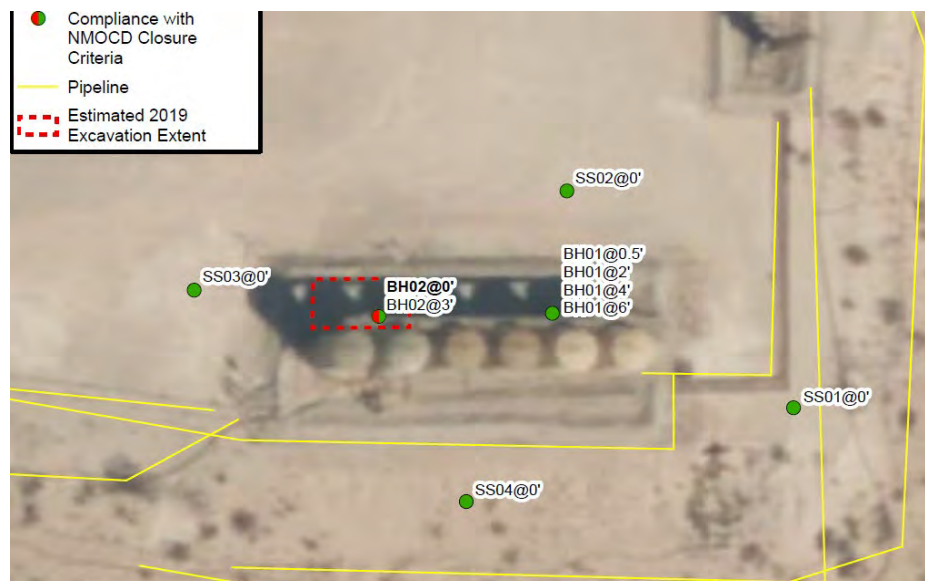
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**From:** Ashley Giovengo  
**Sent:** Tuesday, October 17, 2023 10:47 AM  
**To:** Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>  
**Cc:** Raley, Jim <jim.ralej@dmv.com>; Dan Moir <dmoir@ensolum.com>  
**Subject:** RE: [EXTERNAL] WPX - RDX 15 #001 - Incident Number nAB1817138256

Ashley,

Thank you for the response and I hope that you are feeling better now!

I am still confused at your assessment for this site and would like to further clarify that Borehole, BH01 is located on pad and within containment. The Closure Criteria is based on the absence of any nearby sensitive receptors and onsite drilling data indicating the depth to water is greater than 55 feet bgs. As such, the chloride concentration is in compliance with the appropriate Closure Criteria (10,000 mg/kg) and should not have to meet the reclamation requirement since it is on pad and in an active O&G production area (see image below for reference).



Laboratory analytical results for all soil samples collected from borehole BH01 are in compliance with the Closure Criteria (see image below for reference) and the reclamation requirement should not be applied for this location.

| <b>TABLE 1</b><br><b>SOIL SAMPLE ANALYTICAL RESULTS</b><br><b>RDX 15 #001</b><br><b>WPX Energy Permian, LLC</b><br><b>Eddy County, New Mexico</b> |           |                  |                 |                    |                 |                 |                 |                 |                   |                  |
|---|-----------|------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| Sample Designation  | Date      | Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
| <b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>   |           |                  | <b>10</b>       | <b>50</b>          | <b>NE</b>       | <b>NE</b>       | <b>NE</b>       | <b>1,000</b>    | <b>2,500</b>      | <b>10,000</b>    |
| <b>Delineation Soil Samples</b>   |           |                  |                 |                    |                 |                 |                 |                 |                   |                  |
| SS01  | 6/29/2023 | 0                | <0.025          | <0.050             | <20.0           | <25.0           | <50.0           | <20.0           | <20.0             | 28.9             |
| SS02  | 6/29/2023 | 0                | <0.025          | <0.050             | <20.0           | <25.0           | <50.0           | <20.0           | <20.0             | 114              |
| SS03  | 7/18/2023 | 0                | <0.025          | <0.050             | <20.0           | <25.0           | <50.0           | <20.0           | <20.0             | 234              |
| SS04  | 6/29/2023 | 0                | <0.025          | <0.050             | <20.0           | <25.0           | <50.0           | <20.0           | <20.0             | <20.0            |
| BH01  | 7/18/2023 | 0.5              | <0.025          | <0.050             | <20.0           | <25.0           | <50.0           | <20.0           | <20.0             | 619              |
| BH01  | 7/18/2023 | 2                | <0.025          | <0.050             | <20.0           | <25.0           | <50.0           | <20.0           | <20.0             | 599              |
| BH01  | 7/18/2023 | 4                | <0.025          | <0.050             | <20.0           | <25.0           | <50.0           | <20.0           | <20.0             | 1,300            |
| BH01  | 7/18/2023 | 6                | <0.025          | <0.050             | <20.0           | <25.0           | <50.0           | <20.0           | <20.0             | 2,210            |
| BH02  | 7/31/2023 | 0                | <0.025          | <0.050             | <20.0           | 20,200          | 11,400          | <b>20,200</b>   | <b>31,600</b>     | 5,010            |
| BH02  | 7/18/2023 | 3                | <0.025          | <0.050             | <20.0           | <25.0           | <50.0           | <20.0           | <20.0             | 26.6             |

The only location exceeding the Closure Criteria is in the vicinity of borehole BH02 for which we are requesting deferral since it is directly next to active production equipment.

We would like to respectfully request a meeting with you so we understand your concerns and why you believe the soil in the vicinity of borehole BH01 requires to meet the reclamation requirement.

Thanks,



**Ashley Giovengo**

Senior Engineer

575-988-0055

Ensolum, LLC

in f t

**From:** Maxwell, Ashley, EMNRD <[Ashley.Maxwell@emnrd.nm.gov](mailto:Ashley.Maxwell@emnrd.nm.gov)>

**Sent:** Tuesday, October 17, 2023 8:30 AM

**To:** Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>

**Cc:** Raley, Jim <[jim.rale@dmn.com](mailto:jim.rale@dmn.com)>; Dan Moir <[dmoir@ensolum.com](mailto:dmoir@ensolum.com)>

**Subject:** RE: [EXTERNAL] WPX - RDX 15 #001 - Incident Number nAB1817138256

[ \*\*EXTERNAL EMAIL\*\* ]

Good Morning Ashley,

I apologize for the delayed response. I have been out of the office with COVID.

BHO1 exceeds closure criteria for the top four feet. All areas not reasonably needed for production or subsequent drilling operations must be reclaimed to contain a minimum of four feet of non- waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene. Remediation on an active site can be deferred in areas immediately under or around

production equipment such as production tanks, wellheads, and pipelines where remediation could cause a major facility deconstruction so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water. The deferral request must specify which sample points are being requested for deferral including an explanation why the contaminants can't be removed.

Let me know if you have any additional questions.

Thanks,  
Ashley

**Ashley Maxwell** • Environmental Specialist  
Environmental Bureau Projects Group  
EMNRD - Oil Conservation Division  
1000 Rio Brazos Road | Aztec, NM 87110  
505.635.5000 | [Ashley.Maxwell@emnrd.nm.gov](mailto:Ashley.Maxwell@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>  
**Sent:** Wednesday, October 11, 2023 9:04 AM  
**To:** Maxwell, Ashley, EMNRD <[Ashley.Maxwell@emnrd.nm.gov](mailto:Ashley.Maxwell@emnrd.nm.gov)>  
**Cc:** Raley, Jim <[jim.raley@dyn.com](mailto:jim.raley@dyn.com)>; Dan Moir <[dmoir@ensolum.com](mailto:dmoir@ensolum.com)>  
**Subject:** [EXTERNAL] WPX - RDX 15 #001 - Incident Number nAB1817138256

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

Good Morning, Ms. Maxwell,

I was hoping to setup a call or Teams meeting to discuss the RDX 15 #001 site with you. The deferral request was denied for the reason listed below:

- **Deferral request denied.**
- **BH01 exceed closure criteria for Table 1 at 0.5 feet. This sample is not included in the area requested for deferral.**
- **Submit a report via the OCD permitting site by January 29, 2024.**

BH01 at 0.5' ft did not exceed the Site Closure Criteria as evidenced by the Laboratory analytical results and based on the Site Characterization this is a 10,000 ppm Chloride and 2,500 ppm TPH site. Please feel free to reach out at your earliest convenience.

Thanks,



**Ashley Giovengo**  
Senior Engineer  
575-988-0055  
**Ensolum, LLC**  
in f 

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
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Phone:(505) 334-6178 Fax:(505) 334-6170  
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 309334

QUESTIONS

|  |   |
|--|---|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289  |
|  | Action Number:<br>309334  |
|  | Action Type:<br>[C-141] Deferral Request C-141 (C-141-v-Deferral) |

QUESTIONS

|                      |  |
|----------------------|--|
| <b>Prerequisites</b> |  |
| Incident ID (n#)     | nAB1817138256                            |
| Incident Name        | NAB1817138256 RDX 15 #001 @ 30-015-35955 |
| Incident Type        | Produced Water Release                   |
| Incident Status      | Deferral Request Received                |
| Incident Well        | [30-015-35955] RDX 15 #001               |

|  |             |
|--|-------------|
| <b>Location of Release Source</b>              |             |
| Please answer all the questions in this group. |             |
| Site Name                                      | RDX 15 #001 |
| Date Release Discovered                        | 05/31/2018  |
| Surface Owner                                  | Federal     |

|  |                        |
|--|------------------------|
| <b>Incident Details</b>  |                        |
| Please answer all the questions in this group.   |                        |
| 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                     |

|  |  |
|--|--|
| <b>Nature and Volume of Release</b>  |  |
| 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. |  |
| Crude Oil Released (bbls) Details  | Not answered.  |
| Produced Water Released (bbls) Details   | Cause: Equipment Failure   Tank (Any)   Produced Water   Released: 20 BBL   Recovered: 15 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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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 309334

**QUESTIONS (continued)**

|  |                |
|--|----------------|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:         |
|  | 246289         |
|  | Action Number: |
|  | 309334         |
| 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  | No  |
| Reasons why this would be considered a submission for a notification of a major release   | Unavailable.  |
| 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<br>Title: EHS Professional<br>Email: jim.raley@dmn.com<br>Date: 01/30/2024 |
|--|--|

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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 309334

**QUESTIONS (continued)**

|  |                |
|--|----------------|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:         |
|  | 246289         |
|  | Action Number: |
|  | 309334         |
| 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 51 and 75 (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                             |
| <b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>   |                                |
| A continuously flowing watercourse or any other significant watercourse  | Between 500 and 1000 (ft.)     |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)  | Between 1 and 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  | Greater than 5 (mi.)           |
| Any other fresh water well or spring   | Greater than 5 (mi.)           |
| Incorporated municipal boundaries or a defined municipal fresh water well field  | Greater than 5 (mi.)           |
| A wetland  | Between 1 and 5 (mi.)          |
| A subsurface mine  | Greater than 5 (mi.)           |
| An (non-karst) unstable area   | Greater than 5 (mi.)           |
| Categorize the risk of this well / site being in a karst geology   | Medium                         |
| A 100-year floodplain  | Greater than 5 (mi.)           |
| 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)         | 5010  |
| TPH (GRO+DRO+MRO) | (EPA SW-846 Method 8015M)          | 31600 |
| GRO+DRO           | (EPA SW-846 Method 8015M)          | 20200 |
| 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                        | 01/01/2050 |
| On what date will (or did) the final sampling or liner inspection occur     | 07/31/2023 |
| On what date will (or was) the remediation complete(d)                      | 01/01/2050 |
| What is the estimated surface area (in square feet) that will be reclaimed  | 1021       |
| What is the estimated volume (in cubic yards) that will be reclaimed        | 113        |
| What is the estimated surface area (in square feet) that will be remediated | 1021       |
| What is the estimated volume (in cubic yards) that will be remediated       | 113        |

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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Santa Fe, NM 87505

QUESTIONS, Page 4  
  
Action 309334

QUESTIONS (continued)

|  |                |   |
|--|----------------|---|
| Operator:<br><br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:         | 246289  |
|  | Action Number: | 309334  |
|  | Action Type:   | [C-141] Deferral Request C-141 (C-141-v-Deferral) |
|  |                |   |

QUESTIONS

|  |   |
|--|---|
| <b>Remediation Plan (continued)</b>  |   |
| <i>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.</i>   |   |
| <b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>   |   |
| <i>(Select all answers below that apply.)</i>  |   |
| (Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)  | Yes   |
| Which OCD approved facility will be used for <b>off-site</b> disposal  | Not answered.   |
| <b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal  | Not answered.   |
| <b>OR</b> is the <b>off-site</b> 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  |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility   | Not answered.   |
| (Ex Situ) Excavation and <b>on-site</b> 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.   |
| <i>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>   |   |
| 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<br>Title: EHS Professional<br>Email: jim.raley@dvsn.com<br>Date: 01/30/2024 |
| <i>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.</i>  |   |

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QUESTIONS, Page 5

Action 309334

**QUESTIONS (continued)**

|  |                |   |
|--|----------------|---|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:         | 246289  |
|  | Action Number: | 309334  |
|  | 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  | Spill area is around pipelines and equipment that are currently in use                       |
| What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted   | 1021   |
| What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted   | 113  |
| 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  | 30-015-35955 RDX 15 #001   |
| 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<br>Title: EHS Professional<br>Email: jim.raley@dmn.com<br>Date: 01/30/2024 |

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

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

QUESTIONS, Page 6  
Action 309334

QUESTIONS (continued)

|  |   |
|--|---|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289  |
|  | Action Number:<br>309334  |
|  | Action Type:<br>[C-141] Deferral Request C-141 (C-141-v-Deferral) |

QUESTIONS

|  |                |
|--|----------------|
| Sampling Event Information                   |                |
| Last sampling notification (C-141N) recorded | {Unavailable.} |

|  |    |
|--|----|
| 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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CONDITIONS  
  
Action 309334

CONDITIONS

|  |   |
|--|---|
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CONDITIONS

|            |           |                |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| amaxwell   | None      | 2/1/2024       |