

December 13, 2023

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 RDX Federal 9 #005

Incident Number nAPP2320854077

**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* to document assessment and soil sampling activities at the RDX Federal 9 #005 (Site) in Unit H, Section 9, Township 26 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The Site (32.0599861° N, 103.8809204° W) is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water within a lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, WPX is submitting this *Deferral Request*, describing Site assessment and delineation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2320854077 until the Site is reconstructed and/or the well pad is abandoned.

#### **BACKGROUND**

On July 17, 2023, a valve and seal on the transfer pump malfunctioned, resulting in the release of approximately 16 barrels (bbls) of produced water into the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; all 16 bbls of released produced water were recovered from within the lined containment. A small area to the north of containment was lightly misted due to fluid splashing off the containment floor. A 48-hour advance notice of liner inspection was provided via email to the New Mexico Oil Conservation Division (NMOCD) District II Office. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery. Upon inspection, the liner was determined to be insufficient. WPX reported the release to the NMOCD via email on July 18, 2023, and submitted a Release Notification Form C-141 (Form C-141) on July 27, 2023. The release was assigned Incident Number nAPP2320854077 (Appendix A).

#### SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 601 N Marienfield #400 | Midland, TX 78209 | ensolum.com



Depth to groundwater at the Site is estimated to be 200 feet below ground surface (bgs) based on groundwater depth measurement of a nearby water well. On June 3, 2011, a soil boring (New Mexico Office of the State Engineer (NMOSE file number C-03483) was drilled nearly 0.9 miles of the Site. Soil boring C-03483 was drilled to a depth of 700 feet bgs. Depth to groundwater was confirmed at 200 feet bgs as indicated on the NMOSE *Point of Diversion Summary* form. The Well Record and Log is included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 0.22 miles east 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). 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): 100 mg/kg
- Chloride: 600 mg/kg

#### SITE ASSESSMENT ACTIVITIES

On July 19, 2023, Ensolum personnel visited the Site to evaluate the release extent and conducted Site assessment activities. Four assessment soil samples (SS01 through SS04) were collected around the documented release extent at surface level. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a PetroFLAG® Hydrocarbon Test Kit and chloride using the MOHR method titration. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted in Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as 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 Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

On July 26, 2023, Ensolum personnel returned to the Site to conduct a liner inspection. During the inspection the liner was found to be insufficient and as such it was determined that further delineation was necessary.

#### **DELINEATION ACTIVITIES**

Ensolum returned to the Site on August 9, 2023, and October 23, 2023, to conduct delineation activities to assess for the presence or absence of impacts to soil beneath the containment. The liner was found insufficient during the July 2023 inspection and as such, two boreholes, BH01 and BH02, were advanced in the general vicinity of the damaged liner. Boreholes were advanced via hand auger to depths of 3 feet



bgs and field screened for VOCs and chlorides at each foot. The boreholes hit refusal at a depth of 3 feet bgs due to a layer of bedrock. The soil samples were handled and analyzed as previously described. Field screening results and observations from the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix D. Discrete delineation soil samples were collected at each foot from BH01 at surface level to 3 feet bgs and from BH02 at 1-foot to 3 feet bgs for laboratory analysis.

#### **EXCAVATION ACTIVITIES**

On August 9, 2023, Ensolum personnel oversaw the excavation of impacted soil from the overspray area outside the containment. Excavation activities were performed via backhoe to depths ranging from surface level to 0.5 feet bgs. To direct excavation activities, soil was field screened for VOCs and chloride as previously described. Photographic documentation is included in Appendix C.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS06 were collected from the floor of the excavation at depths ranging from surface level to 0.5 feet bgs. Sidewalls were included in composite soil samples FS01 through FS06 due to the shallow nature of the excavation in these areas. The soil samples were handled and analyzed as previously described. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3.

A total of approximately 20 cubic yards of soil were removed during excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility in Hobbs, New Mexico.

#### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for assessment soil samples SS01 through SS04, collected around the release extent, indicated all COC concentrations were compliant with Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix E.

Laboratory analytical results for the vertical delineation soil samples collected from borehole BH01, indicated TPH and chloride concentrations exceeded the Site Closure Criteria at depths ranging from surface level to 3 feet bgs, directly beneath the tear in the liner. Subsequent delineation borehole BH02 indicated all COC concentrations were compliant with the Closure Criteria at depths ranging from ground surface level to 3 feet bgs.

Laboratory analytical results for the excavation floor soil samples FS01 through FS06, collected at depths ranging from ground surface level to 0.5 feet bgs and outside the lined containment, indicated all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix E.

#### **DEFERRAL REQUEST**

WPX is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines within the lined containment. Impacted soil is limited to the area immediately beneath the lined containment and active production equipment, where remediation would require a major facility deconstruction.

Impacted soil remaining in place beneath the liner, which is delineated vertically by delineation soil sample BH02, collected to a depth of 3 feet bgs, and laterally by surface soil samples SS01 through



SS04, collected at the ground surface level. A maximum of 52 cubic yards of TPH and chloride impacted soil remains in place beneath the liner assuming a maximum 3-foot depth based on the delineation soil samples listed above. Impacted soil volumes estimate include waste-containing soil volumes to be addressed through reconstruction of the containment or final pad reclamation.

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 200 feet bgs, the release was contained laterally by the lined containment, and the impacted soil remaining in place is limited to the area immediately beneath the liner. The liner has been repaired by WPX and will restrict future vertical migration of residual impacts and any interactions with humans and/or wildlife.

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 nAPP2320854077 until final reclamation of the well pad or major construction, whichever comes first. Remedial actions completed to date have been protective of human health, the environment, and groundwater and deferment of impacted soil beneath the lined containment appears to be equally protective and warranting deferment. Notifications submitted to the NMOCD are included in Appendix F and the final Form C-141 is included in Appendix A.

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

Sincerely, **Ensolum, LLC** 

Ashely Giovengo Senior Engineer

Daniel R. Moir, PG Senior Managing Geologist

cc: Jim Raley, WPX

**Bureau of Land Management** 

#### Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations Figure 3 Excavation Soil Sample Locations

Figure 4 Area of Requested Deferral Table 1 Soil Sample Analytical Results

Appendix A Form C-141
Appendix B Reference Wells
Appendix C Photographic Log

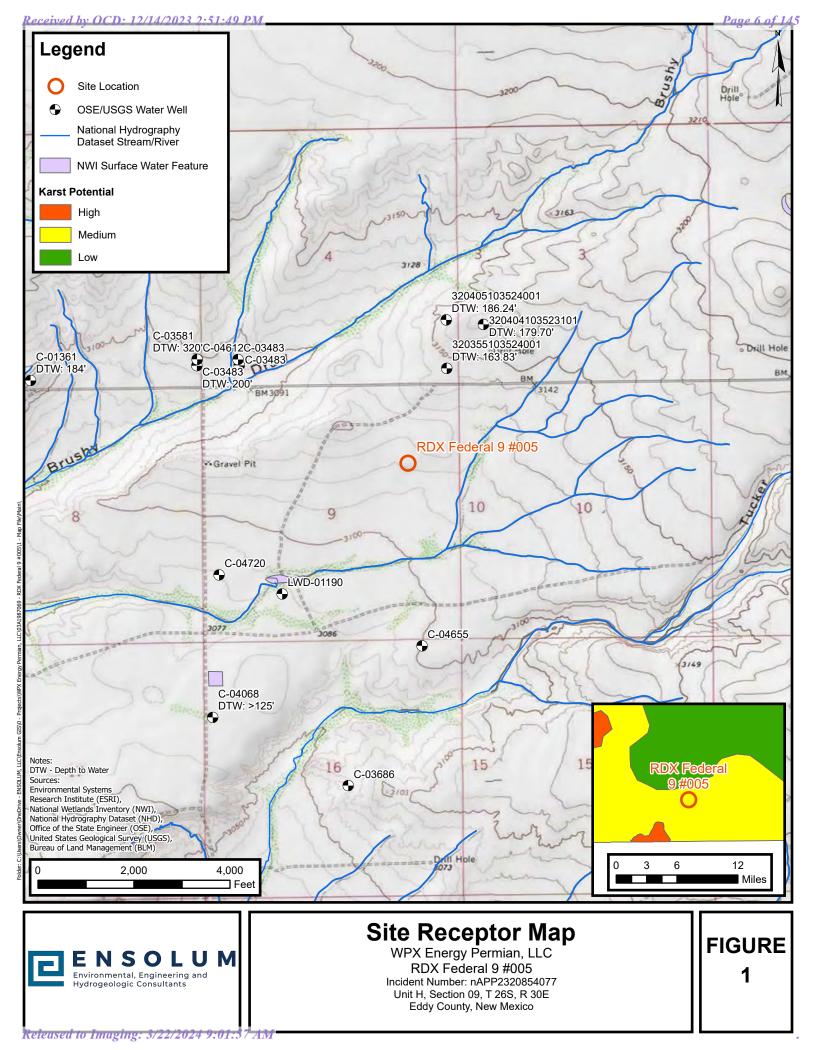
Appendix D Lithographic Soil Sampling Logs

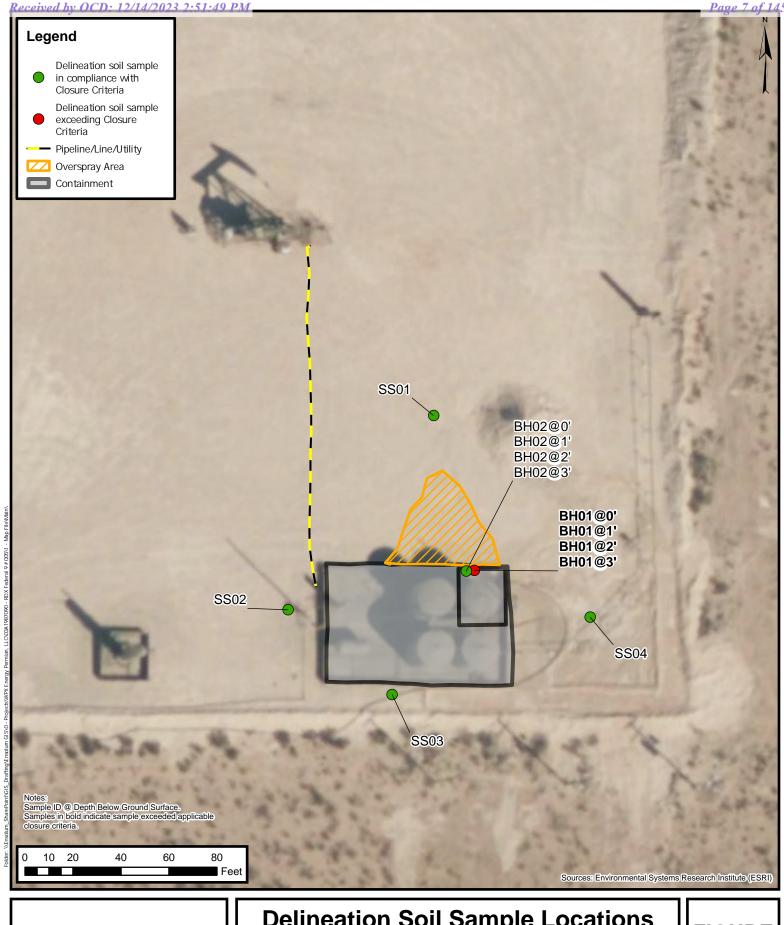
Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix F Email Correspondence



**FIGURES** 

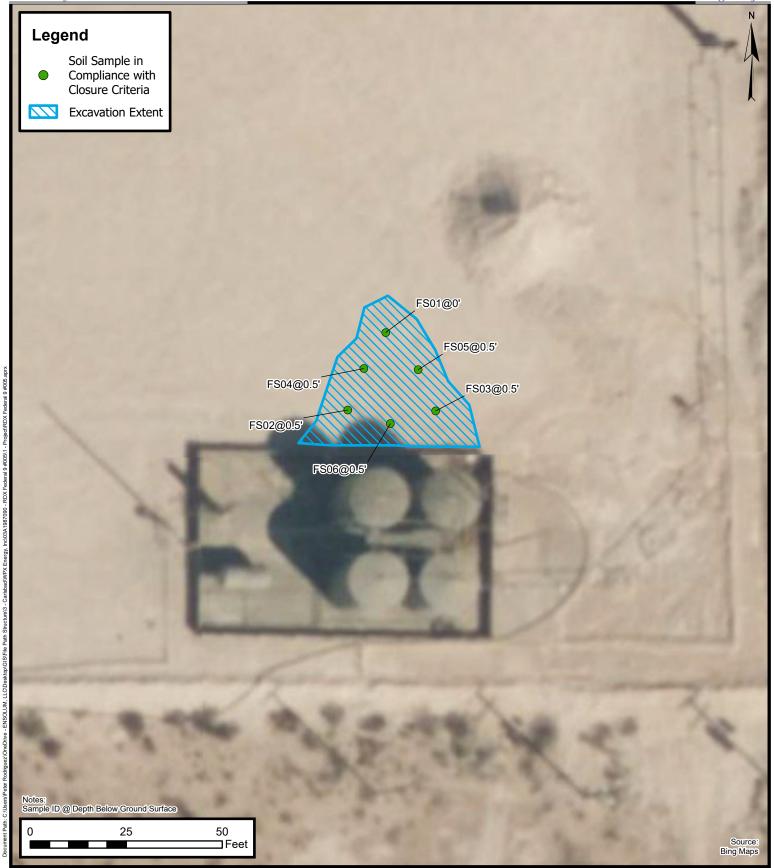






## Delineation Soil Sample Locations WPX Energy Permian, LLC

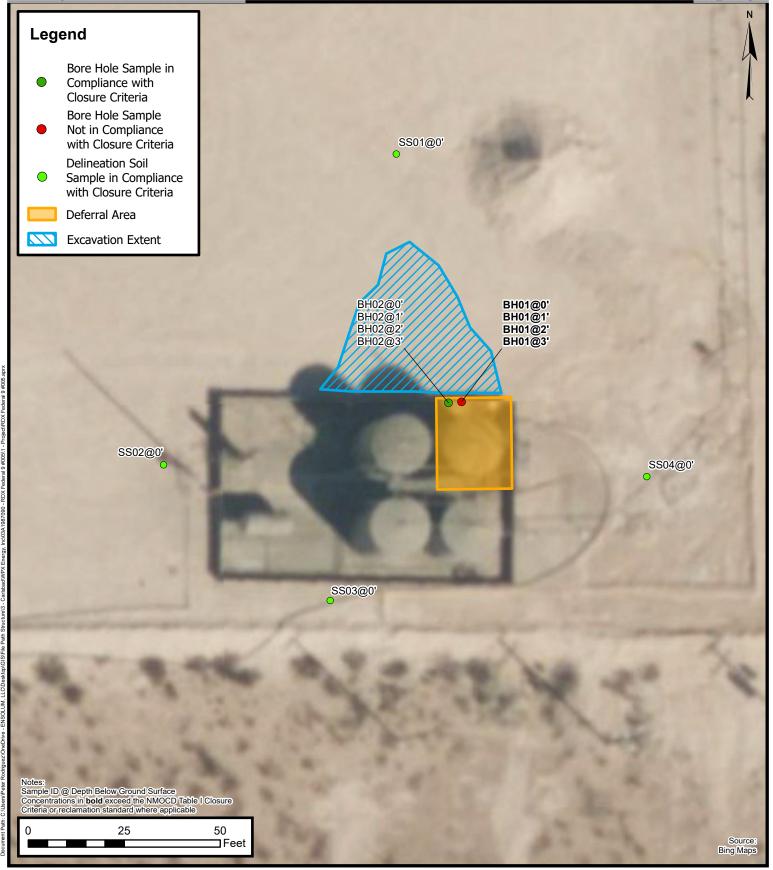
WPX Energy Permian, LLC RDX Federal 9 #005 Incident Number: napp2320854077 Unit H, Section 09, T26S R30E Eddy County, New Mexico FIGURE 2





### **Excavation Soil Sample Locations**

WPX Energy Permian, LLC RDX Federal 9 #005 Incident Number: NAPP2320854077 Unit H, Section 09, T26S R30E Eddy County,New Mexico FIGURE 3





### **Area of Requested Deferral**

WPX Energy Permian, LLC RDX Federal 9 #005 Incident Number: NAPP2320854077 Unit H, Section 09, T26S R30E Eddy County,New Mexico FIGURE

4



**TABLES** 



#### TABLE 1

#### **SOIL SAMPLE ANALYTICAL RESULTS**

RDX Federal 9 #005 **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)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Deli	neation Soil Sam	ples				
SS01	7/26/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	<20.0
SS02	7/26/2023	0	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	<20.0
SS03	7/26/2023	0	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	<20.0
SS04	7/26/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	<20.0
BH01	8/9/2023	0	< 0.0250	<0.0500	<20.0	14,400	6,900	14,400	21,300	65.3
BH01	8/9/2023	1	< 0.0250	<0.0500	<20.0	332	169	332	501	2,780
BH01	8/9/2023	2	< 0.0250	<0.0500	<20.0	620	322	620	942	897
BH01	8/9/2023	3	<0.0250	<0.0500	<20.0	105	81.0	105	186	111
BH02	10/23/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	86.8
BH02	10/23/2023	1	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	294
BH02	10/23/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	448
BH02	10/23/2023	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	425
	Excavation Floor Soil Samples									
FS01	8/9/2023	0	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	<20.0
FS02	8/9/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	128
FS03	8/9/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	458
FS04	11/22/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	117
FS05	11/22/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	157
FS06	11/22/2023	0.5	< 0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<20.0	245

#### 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

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

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

\* 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.

<sup>&</sup>quot;<": Laboratory Analytical result is less than reporting limit

GRO: Gasoline Range Organics



**APPENDIX A** 

Form C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2320854077
District RP	
Facility ID	
Application ID	

### **Responsible Party**

Responsible Party WPX Energy Permian, LLC				OGRII	OGRID 246289		
Contact Name Jim Raley				Contac	Contact Telephone 575-689-7597		
Contact ema	ail Jim.Rale	y@dvn.com		Incide	nt # (assigned by OCD) nAPP2320854077		
Contact mai 88220	ling address	5315 Buena Vis	ta Drive, Carlsba	ad, NM			
			Locatio	n of Release	Source		
Latitude3	2.0599861		(NAD 83 in a	Longitu decimal degrees to 5 d	de103.8809204 decimal places)		
Site Name: R	RDX FEDER	AAL 9 #005		Site Ty	pe Oil Well		
Date Release	Discovered	: 7/17/2023		API# (i	f applicable) 30-015-41630		
Unit Letter	Section	Township	Range		County		
Н	09	26S	30E	Eddy			
Crude Oi		volume Released		ch calculations or spe	cific justification for the volumes provided below)  Volume Recovered (bbls)		
Crude Oi				ch calculations or spe			
□ Produced	d Water	Volume Releas	plume Released (bbls) 16		Volume Recovered (bbls) 16		
			ation of dissolved >10,000 mg/l?	I chloride in the	⊠ Yes □ No		
Condens	ate	Volume Releas			Volume Recovered (bbls)		
Natural C	Gas	Volume Releas	ed (Mcf)		Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide un			t Released (provi	ide units)	nits) Volume/Weight Recovered (provide units)		
recovered by	y vac truck, l	e = Recovered Vo	ed.	oduced water tanl	to overflow to lined secondary containment. Fluids		

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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
☐ Yes ⊠ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
ii 125, was iiiiiediate ik	side given to the Geb. By whom. To whom: When and by what metalls (phone, email, etc).
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.
[ <u> </u>	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
Por 10 15 20 8 P. (4) NIM	AC the responsible party may commence remediation immediately after discovery of a release. If remediation
has begun, please attach a	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are a public health or the environm failed to adequately investiga	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atteand remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:Jim Rale	ey Title:Environmental Professional
Signature: _fin Rdy	Date:7/27/2023
email:jim.raley@dvn	.com Telephone: 575-689-7597
OCD Only	
Received by: Shelly W	ells Date: <u>7/28/2023</u>

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### Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>200 (ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No		
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No		
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ⊠ No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil		
Characterization Report Checklist: Each of the following items must be included in the report.			
<ul> <li>         \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well         \infty Field data     </li> </ul>	ls.		
☐ Data table of soil contaminant concentration data			
Depth to water determination			
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release			
<ul> <li>☑ Boring or excavation logs</li> <li>☑ Photographs including date and GIS information</li> </ul>			
Topographic/Aerial maps			
☐ Laboratory data including chain of custody			

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 245304

#### CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory Oklahoma City, OK 73102	Action Number: 245304
	Action Type:  [C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
scwells	None	7/28/2023

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: <u>James Raley</u> Title: <u>Environmental Specialist</u> Date: <u>11/12/2023</u> email: jim.raley@dvn.com Telephone: <u>575-200-7597</u> **OCD Only** Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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### **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be	e included in the plan.
☐ Detailed description of proposed remediation technique ☐ Scaled sitemap with GPS coordinates showing delineation point ☐ Estimated volume of material to be remediated ☐ Closure criteria is to Table 1 specifications subject to 19.15.29. ☐ Proposed schedule for remediation (note if remediation plan times)	ts 12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	afirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	
Extents of contamination must be fully delineated.	
○ Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: James Raley	Title: Environmental Specialist
Signature:	Date: 11/12/2023
email: jim.raley@dvn.com	Telephone: <u>575-200-7597</u>
OCD Only	
·	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions of	Approval
Signature:	Date:



**APPENDIX B** 

Referenced Wells



### New Mexico Office of the State Engineer

## **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

C 03483

4 4 4 05 26S 30E

604296 3548251

9

Driller License: 1509 Driller Company: BMS DRILLING COMPANY

Driller Name: BEAUREGARD, RICHARD

Drill Start Date: 06/03/2011

**Drill Finish Date:** 

06/08/2011

Plug Date:

Log File Date:

07/14/2011

PCW Rcv Date:

**Depth Well:** 

00,00,00

Source: Shallow

Estimated Yield: 35 GPM

Pump Type:

**Casing Size:** 

SUBMER

8.00

Pipe Discharge Size:

700 feet

Depth Water:

200 feet

Water Bearing Stratifications:

Top Bottom Description
200 255 Sandstone/G

255 Sandstone/Gravel/Conglomerate

285 320 Sandstone/Gravel/Conglomerate 320 360 Sandstone/Gravel/Conglomerate

510 650 Shale/Mudstone/Siltstone

**Casing Perforations:** 

**Top Bottom** 180 260

180 260 280 360

500 680

Meter Number:

14452

Meter Make:

**MASTERMETER** 

Meter Serial Number: 32530329

Meter Multiplier:

100.0000

Number of Dials:

6

Meter Type:

Diversion

**Unit of Measure:** 

Gallons

**Return Flow Percent:** 

Usage Multiplier: Readi

Reading Frequency: Monthly (No Reading

Expected)

**Meter Readings (in Acre-Feet)** 

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Online
07/11/2011	2011	10	Α	bd WELL TO BE SET UP FOR COM SALE	0
04/01/2014	2014	188668	Α	RPT	0
04/02/2014	2014	44195	Α	RPT	0
07/01/2014	2014	62284	Α	RPT	5.551
10/01/2014	2014	91448	Α	RPT	8.950
12/31/2014	2014	126199	Α	RPT	10.665
02/01/2015	2015	138888	Α	RPT	3.894
03/02/2015	2015	150578	Α	RPT	3.588
04/01/2015	2015	157715	Α	RPT	2.190

#### Meter Readings (in Acre-Feet)

Read Date	Year M	tr Reading	Flag	Rdr Comment	Mtr Amount Online
04/30/2015	2015	170037	Α	RPT	3.781
05/31/2015	2015	182144	Α	RPT	3.716
07/01/2015	2015	188338	Α	RPT	1.901
08/31/2015	2015	209416	Α	RPT	6.469
01/01/2016	2015	244328	Α	mb	10.714
02/01/2016	2016	245605	Α	mb	0.392
03/02/2016	2016	246331	Α	mb	0.223
04/01/2016	2016	246331	Α	mb	0
05/01/2016	2016	248057	Α	mb	0.530
06/01/2016	2016	262631	Α	mb	4.473
07/01/2016	2016	271192	Α	mb	2.627
08/01/2016	2016	273040	Α	mb	0.567
09/01/2016	2016	283123	Α	mb	3.094
10/01/2016	2016	290786	Α	mb	2.352
**YTD Meter	Amounts:	Year	Aı	mount	
		2011		0	
		2014	2	25.166	
		2015	;	36.253	
		2016		14.258	

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



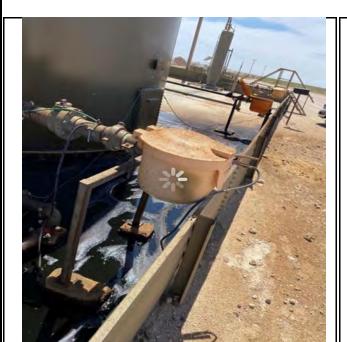
**APPENDIX C** 

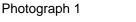
Photographic Log

## **ENSOLUM**

### Photographic Log

WPX Energy Permian, LLC RDX Federal 9 #005 Incident Number nAPP2320854077





Description: Initial spill area

View: West



Date: 7/17/23

Photograph 2

Description: Initial spill area

View: Northwest



Photograph 3 Date: 7/19/23 Photograph 4 Date: 7/19/23

Description: Overspray Area Description: Hole North of water tank

View: Southeast View: Southeast

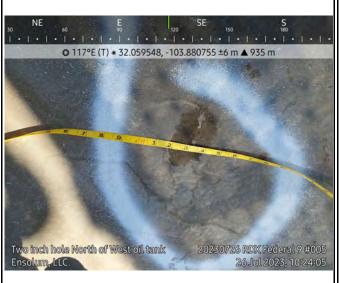
Date: 7/17/23





Photographic Log WPX Energy Permian, LLC RDX Federal 9 #005

Incident Number nAPP2320854077





Photograph 5 Date: 7/26/23 Description: Hole North of Oil tank (not in spill area)

View: East

Photograph 6 Date: 7/26/23 Description: Liner worn at Northwest corner (not in spill area)

View: Northwest





Date: 7/26/23

Photograph 7 Date: 7/26/23 Photograph 8 Description: Delineation sampling

Description: Delineation sampling

View: North

View: East



### Photographic Log

WPX Energy Permian, LLC RDX Federal 9 #005 Incident Number nAPP2320854077





Photograph 9 Date: 8/9/23

Description: Delineation - BH01

View: East

Photograph 10

Description: Scrape of overspray area

View: North





Photograph 11 Date: 8/9/23

Description: Scrape of overspray area

View: Southeast

Photograph 12
Description: Signage

View: South

Date: 10/13/2023

Date: 8/9/23

## **ENSOLUM**

Photographic Log WPX Energy Permian, LLC RDX Federal 9 #005

Incident Number nAPP2320854077





Photograph 13
Description: One call

View: East

Lease Sig

Date: 10/13/23

Photograph 14 Date: 10/13/23

Description: Scrape of overspray area

View: Northeast





Photograph 15 Date: 10/13/23

Description: Liner Sample Location

View: Southeast

Photograph 16

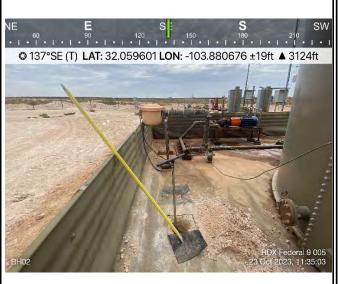
Description: One Call

View: East

Date: 10/13/2023



Photographic Log WPX Energy Permian, LLC RDX Federal 9 #005 Incident Number nAPP2320854077





Date: 10/23/23

Photograph 17 **Description: Liner Delineation** 

View: Southeast

Date: 10/23/23

Photograph 18 Description: Liner Delineation

View: West

© 206°SW (T) LAT: 32.059539 LON: -103.880407 ±167ft ▲ 3126ft BH02 Vertical D

Date: 10/23/23 Photograph 19

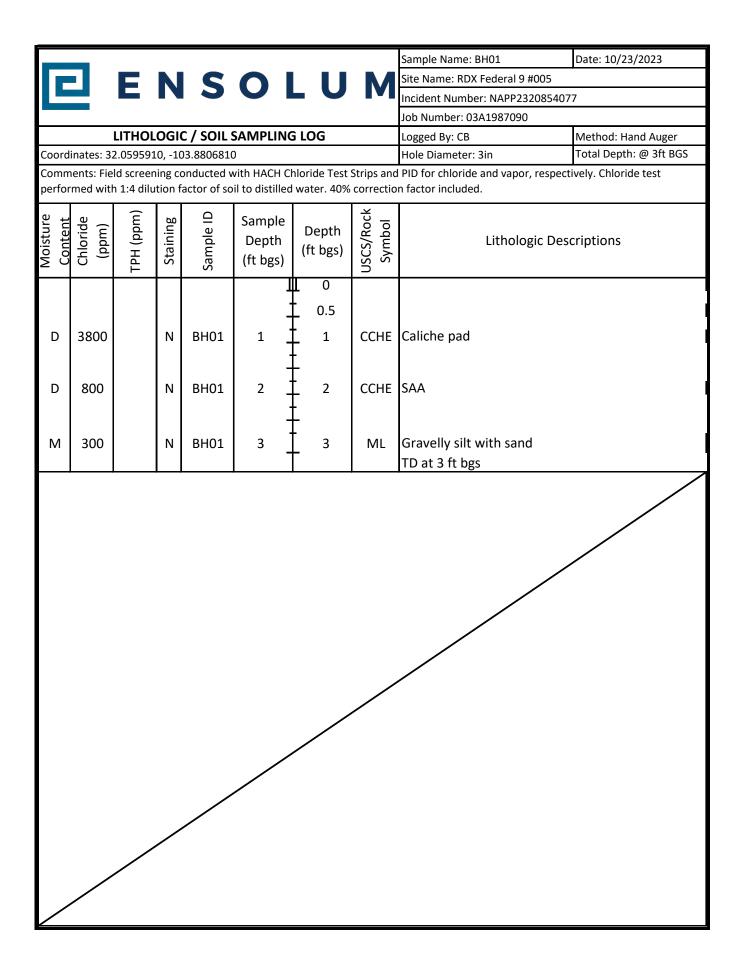
Description: Liner Delineation View: Southwest

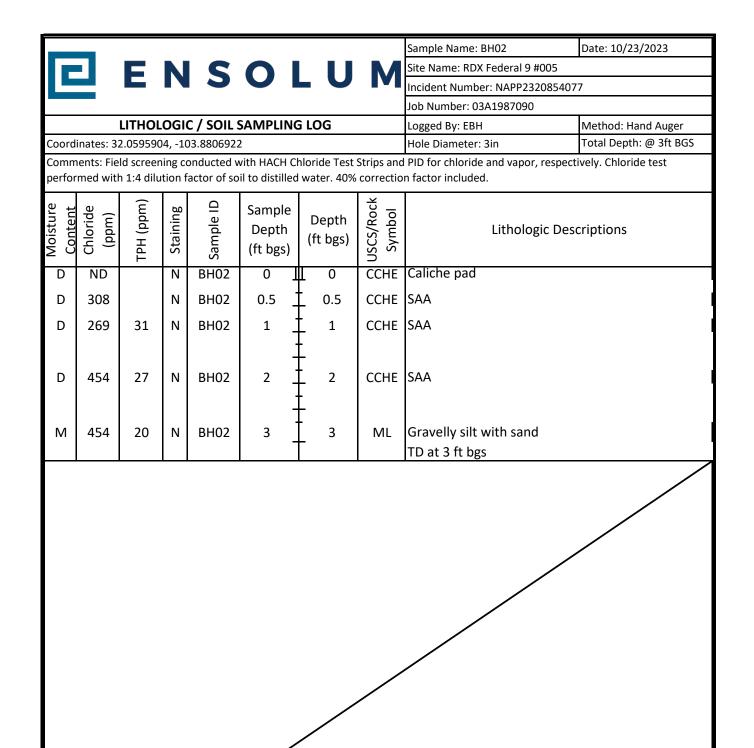
Page 5 of 5



### APPENDIX D

Lithologic Soil Sampling Logs



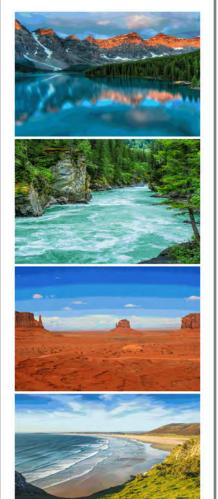




### **APPENDIX E**

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

### **Analytical Report**

Devon Energy - Carlsbad

Project Name: RDX Federal 9 #005

Work Order: E307166

Job Number: 01058-0007

Received: 7/28/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/3/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/3/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: RDX Federal 9 #005

Workorder: E307166

Date Received: 7/28/2023 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/28/2023 6:00:00AM, under the Project Name: RDX Federal 9 #005.

The analytical test results summarized in this report with the Project Name: RDX Federal 9 #005 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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West Texas Midland/Odessa Area

Envirotech Web Address: www.envirotech-inc.com

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### Sample Summary

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/03/23 12:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 0'	E307166-01A	Soil	07/26/23	07/28/23	Glass Jar, 2 oz.
SS02 - 0'	E307166-02A	Soil	07/26/23	07/28/23	Glass Jar, 2 oz.
SS03 - 0'	E307166-03A	Soil	07/26/23	07/28/23	Glass Jar, 2 oz.
SS04 - 0'	E307166-04A	Soil	07/26/23	07/28/23	Glass Jar, 2 oz.



### Sample Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/3/2023 12:01:08PM

### SS01 - 0' E307166-01

		E307166-01				
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2330120
Benzene	ND	0.0250	1	07/28/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/28/23	08/01/23	
Toluene	ND	0.0250	1	07/28/23	08/01/23	
p-Xylene	ND	0.0250	1	07/28/23	08/01/23	
o,m-Xylene	ND	0.0500	1	07/28/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/28/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		96.7 %	70-130	07/28/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2330120
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.8 %	70-130	07/28/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2331014
Diesel Range Organics (C10-C28)	ND	25.0	1	08/01/23	08/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/23	08/01/23	
Surrogate: n-Nonane		113 %	50-200	08/01/23	08/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2331010
Chloride	ND	200	10	07/31/23	07/31/23	



Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/3/2023 12:01:08PM

SS02 - 0'

#### E307166-02

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analyst	:: IY		Batch: 2330120
ND	0.0250	1	07/28/23	08/01/23	
ND	0.0250	1	07/28/23	08/01/23	
ND	0.0250	1	07/28/23	08/01/23	
ND	0.0250	1	07/28/23	08/01/23	
ND	0.0500	1	07/28/23	08/01/23	
ND	0.0250	1	07/28/23	08/01/23	
	97.5 %	70-130	07/28/23	08/01/23	
mg/kg	mg/kg	Analyst	:: IY		Batch: 2330120
ND	20.0	1	07/28/23	08/01/23	
	83.5 %	70-130	07/28/23	08/01/23	
mg/kg	mg/kg	Analyst	:: KM		Batch: 2331014
ND	25.0	1	08/01/23	08/01/23	
ND	23.0	1	00/01/25	00/01/25	
ND ND	50.0	1	08/01/23	08/01/23	
		50-200			
	50.0	1 50-200 Analyst	08/01/23 08/01/23	08/01/23	Batch: 2331010
	mg/kg  ND  ND  ND  ND  ND  ND  ND  ND  MD  MD	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         97.5 %           mg/kg         mg/kg           ND         20.0           83.5 %         mg/kg           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Analyst           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           MD         0.0250         1           MD         20.0250         1           Mg/kg         mg/kg         Analyst           ND         20.0         1           83.5 %         70-130           mg/kg         mg/kg         Analyst	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IV           ND         0.0250         1         07/28/23           ND         0.0250         1         07/28/23           ND         0.0250         1         07/28/23           ND         0.0250         1         07/28/23           ND         0.0500         1         07/28/23           ND         0.0250         1         07/28/23           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         07/28/23           mg/kg         mg/kg         Analyst: KM	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         07/28/23         08/01/23           ND         0.0500         1         07/28/23         08/01/23           ND         0.0250         1         07/28/23         08/01/23           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         07/28/23         08/01/23           83.5 %         70-130         07/28/23         08/01/23           mg/kg         mg/kg         Analyst: KM



Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/3/2023 12:01:08PM

SS03 - 0'

#### E307166-03

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2330120
Benzene	ND	0.0250	1	07/28/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/28/23	08/01/23	
Toluene	ND	0.0250	1	07/28/23	08/01/23	
o-Xylene	ND	0.0250	1	07/28/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/28/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/28/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		97.3 %	70-130	07/28/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	Analyst: IY		Batch: 2330120
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.0 %	70-130	07/28/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2331014
Diesel Range Organics (C10-C28)	ND	25.0	1	08/01/23	08/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/23	08/01/23	
Surrogate: n-Nonane		111 %	50-200	08/01/23	08/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2331010
Chloride	ND	200	10	07/31/23	07/31/23	



Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/3/2023 12:01:08PM

#### SS04 - 0'

#### E307166-04

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2330120
Benzene	ND	0.0250	1	07/28/23	08/01/23	
Ethylbenzene	ND	0.0250	1	07/28/23	08/01/23	
Toluene	ND	0.0250	1	07/28/23	08/01/23	
o-Xylene	ND	0.0250	1	07/28/23	08/01/23	
p,m-Xylene	ND	0.0500	1	07/28/23	08/01/23	
Total Xylenes	ND	0.0250	1	07/28/23	08/01/23	
Surrogate: 4-Bromochlorobenzene-PID		96.8 %	70-130	07/28/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2330120
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/23	08/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.3 %	70-130	07/28/23	08/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2331014
Diesel Range Organics (C10-C28)	ND	25.0	1	08/01/23	08/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/23	08/01/23	
Surrogate: n-Nonane		117 %	50-200	08/01/23	08/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2331010
Chloride	ND	200	10	07/31/23	07/31/23	



		QC 50		iry Dat					
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	01	DX Federal 9 1058-0007 shley Giovens				8/3	Reported: /2023 12:01:08PM
		Volatile O	rganics b	ganics by EPA 8021B					Analyst: IY
Analyte		Reporting	Spike	Source		Rec		RPD	
rmaryte	Result	Ĺimit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2330120-BLK1)							Prepared: 0	7/28/23 Analy	yzed: 08/01/23
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	7.70		8.00		96.3	70-130			
LCS (2330120-BS1)							Prepared: 0	7/28/23 Analy	yzed: 08/01/23
Benzene	5.28	0.0250	5.00		106	70-130			
Ethylbenzene	5.12	0.0250	5.00		102	70-130			
Toluene	5.31	0.0250	5.00		106	70-130			
o-Xylene	5.29	0.0250	5.00		106	70-130			
p,m-Xylene	10.6	0.0500	10.0		106	70-130			
Total Xylenes	15.9	0.0250	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.3	70-130			
Matrix Spike (2330120-MS1)				Source:	E307166-	03	Prepared: 0	7/28/23 Analy	yzed: 08/01/23
Benzene	5.17	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133			
Toluene	5.20	0.0250	5.00	ND	104	61-130			
o-Xylene	5.18	0.0250	5.00	ND	104	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130	<u> </u>		
Matrix Spike Dup (2330120-MSD1)				Source:	E307166-	03	Prepared: 0	7/28/23 Analy	yzed: 08/01/23
Benzene	5.32	0.0250	5.00	ND	106	54-133	2.78	20	
Ethylbenzene	5.15	0.0250	5.00	ND	103	61-133	2.46	20	
Toluene	5.33	0.0250	5.00	ND	107	61-130	2.56	20	
o-Xylene	5.32	0.0250	5.00	ND	106	63-131	2.81	20	
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131	2.61	20	
Pill II Jielle	16.0	0.0250	15.0	ND	106	63-131	2.68	20	

8.00

7.78

97.3

70-130



Surrogate: 4-Bromochlorobenzene-PID

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/3/2023 12:01:08PM

Artesia NM, 88210		Project Manage	r: As	shley Gioven	go				8/3/2023 12:01:08PM
	Nor	halogenated	Analyst: IY						
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2330120-BLK1)							Prepared: 0	7/28/23 Aı	nalyzed: 08/01/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.63		8.00		82.9	70-130			
LCS (2330120-BS2)							Prepared: 0	7/28/23 Aı	nalyzed: 08/01/23
Gasoline Range Organics (C6-C10)	45.5	20.0	50.0		91.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.72		8.00		84.0	70-130			
Matrix Spike (2330120-MS2)				Source:	E307166-	03	Prepared: 0	7/28/23 Aı	nalyzed: 08/01/23
Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	ND	91.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.70		8.00		83.7	70-130			
Matrix Spike Dup (2330120-MSD2)				Source:	E307166-	03	Prepared: 0	7/28/23 Aı	nalyzed: 08/01/23
Gasoline Range Organics (C6-C10)	47.7	20.0	50.0	ND	95.3	70-130	4.14	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.71		8.00		83.9	70-130			



Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	0.00.0000
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/3/2023 12:01:08PM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go				8/3/2023 12:01:08PM
	Nonha	logenated Or		Analyst: KM					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2331014-BLK1)							Prepared: 0	8/01/23 A	analyzed: 08/01/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.5		50.0		117	50-200			
LCS (2331014-BS1)							Prepared: 0	8/01/23 A	analyzed: 08/01/23
Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132			
Surrogate: n-Nonane	51.0		50.0		102	50-200			
Matrix Spike (2331014-MS1)				Source:	E307166-0	01	Prepared: 0	8/01/23 A	analyzed: 08/01/23
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	48.2		50.0		96.5	50-200			
Matrix Spike Dup (2331014-MSD1)				Source:	E307166-	01	Prepared: 0	8/01/23 A	analyzed: 08/01/23
Diesel Range Organics (C10-C28)	254	25.0	250	ND	101	38-132	2.66	20	
Surrogate: n-Nonane	49.9		50.0		99.8	50-200			



Chloride

## **QC Summary Data**

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number Project Manager	: 01	OX Federal 9 058-0007 Shley Giovens					<b>Reported:</b> 8/3/2023 12:01:08PM
				00.0/9056					Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2331010-BLK1)							Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Chloride	ND	20.0							
LCS (2331010-BS1)							Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Chloride	261	20.0	250		104	90-110			
Matrix Spike (2331010-MS1)				Source:	E307166-	01	Prepared: 0	7/31/23 A	nalyzed: 07/31/23
Chloride	333	200	250	ND	133	80-120			M5
Matrix Spike Dup (2331010-MSD1)				Source:	E307166-0	01	Prepared: 0	7/31/23 A	nalyzed: 07/31/23

250

200

ND

117

80-120

12.9

#### 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**

ſ	Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	
١	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
١	Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/03/23 12:01

M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The

accociated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



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nent. L	Devon Energy					Bill To				L	ab Us	e On	lv			7	TAT		EPA Pr	ograr
	RDX Federal				A	Attention: Jim Raley			Lab WC					1	D 2			tandard	CWA	SDV
roject N	Manager: As	hley Giov	vengo			Address: 5315 Buena Vista	Dr Dr		F.30	7110	10	010	Number <b>58-000</b>	7				X		-
ddress:	3122 Natio	nal Parks	Hwy			City, State, Zip: Carlsbad N	M, 88220			LLS		Analy	sis and Met	thod			-	1.4.4		RC
ity, Stat	te, Zip: Carls	bad NM,	88220		P	Phone: (575)689-7597			by											
	575-988-005					mail: jim.raley@dvn.com			ORO SWO										State	
	giovengo@e	nsolum.d	com						RO/	1	0		300.0		Σ	1		NM CO	UT AZ	TX
eport d	ue by:								0/0	, 8021	826	6010	e 300	- 1		×		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number	TPH GRO/DRO/ORO by	BTEX by	VOC by 8260	Metals 6010	Chloride		BGDOC	GDOC			Remarks	
10:49	7/26/2023	S	1			SS01 - 0'									х					
10:51	7/26/2023	S	1			SS02 - 0'		2							х					
10:53	7/26/2023	S	1			SS03 - 0'		3							х					
10:56	7/26/2023	S	1			SS04 - 0'		4							х					
				1																
						m, agiovengo@ensolum.				hami	Iton(									
ate or time	of collection is c	onsidered f	raud and ma	ay be grounds fo		e that tampering with or intentiona n. <u>Sampled by:</u>	lly mislabellir	ng the sampl	le location,				s requiring thern d packed in ice a					The state of the s	Section of the second section of the	ed or
6	ed by: (Signatur	Ma	7- Date	27-23	10:00		xella	7-27:	23 Time	DOC	)	Rece	ived on ice	e: <i>(</i>	Lab	Use O N	nly			
elinguish	ed by: (Signatur	und	Date 7	27-23	ime 1700	Received by: (Signature)	The state of the s	7 · 27	7.23 /		0	T1		T	2			<u>T3</u>		

envirotech

Printed: 7/28/2023 10:12:38AM

#### **Envirotech Analytical Laboratory**

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:	07/28/23	06:00	Work Order ID:	E307166
Phone:	(505) 382-1211	Date Logged In:	07/27/23	15:45	Logged In By:	Caitlin Mars
Email:	ashley.giovengo@wescominc.com	Due Date:	08/03/23	17:00 (4 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location ma	itch the COC	Yes			
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	e COC complete, i.e., signatures, dates/times, reque	ested analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted i.e, 15 minute hold time, are not included in this disucss		Yes		<u>Comment</u>	s/Resolution
Sample T	Turn Around Time (TAT)					
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C						
	sample cooler received?		Yes			
	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?					
	were custody/security seals intact?		No			
•	, ,		NA			
	e sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples a minutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes <u>C</u>			
	Container .	•				
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	29	Yes			
	appropriate volume/weight or number of sample conta		Yes			
Field Lal		mens concetta.	105			
	field sample labels filled out with the minimum inf	ormation:				
	ample ID?	Offilation.	Yes			
	pate/Time Collected?		Yes			
C	ollectors name?		No			
Sample I	<u>Preservation</u>					
21. Does	the COC or field labels indicate the samples were p	reserved?	No			
22. Are sa	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved in	metals?	No			
Multipha	se Sample Matrix					
	the sample have more than one phase, i.e., multipla	ase?	No			
	, does the COC specify which phase(s) is to be anal		NA			
		,, 2001	1423			
	act Laboratory	0	M-			
	amples required to get sent to a subcontract laborator subcontract laboratory specified by the client and	-	No NA	Subcontract Lab: NA		
Client II	<u>nstruction</u>					
						_

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

# **Analytical Report**

Ensolum, LLC

Project Name: RDX Federal 9 #005

Work Order: E308072

Job Number: 01058-0007

Received: 8/11/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 8/17/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/17/23

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX Federal 9 #005

Workorder: E308072

Date Received: 8/11/2023 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/11/2023 8:00:00AM, under the Project Name: RDX Federal 9 #005.

The analytical test results summarized in this report with the Project Name: RDX Federal 9 #005 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

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ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan

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

Envirotech Web Address: www.envirotech-inc.com

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## Sample Summary

Ensolum, LLC	Project Name:	RDX Federal 9 #005	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/17/23 15:49

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
FS01 - 0'	E308072-01A Soil	08/09/23	08/11/23	Glass Jar, 2 oz.
FS02 - 0.5'	E308072-02A Soil	08/09/23	08/11/23	Glass Jar, 2 oz.
BH01 - 0'	E308072-03A Soil	08/09/23	08/11/23	Glass Jar, 2 oz.
BH01 - 1'	E308072-04A Soil	08/09/23	08/11/23	Glass Jar, 2 oz.
BH01 - 2'	E308072-05A Soil	08/09/23	08/11/23	Glass Jar, 2 oz.
BH01 - 3'	E308072-06A Soil	08/09/23	08/11/23	Glass Jar, 2 oz.



Ensolum, LLC	Project Name:	RDX Federal 9 #005	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/17/2023 3:49:02PM

#### FS01 - 0' E308072-01

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: IY		Batch: 2332106
Benzene	ND	0.0250	1	08/11/23	08/16/23	
Ethylbenzene	ND	0.0250	1	08/11/23	08/16/23	
Toluene	ND	0.0250	1	08/11/23	08/16/23	
o-Xylene	ND	0.0250	1	08/11/23	08/16/23	
p,m-Xylene	ND	0.0500	1	08/11/23	08/16/23	
Total Xylenes	ND	0.0250	1	08/11/23	08/16/23	
Surrogate: Bromofluorobenzene		102 %	70-130	08/11/23	08/16/23	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	08/11/23	08/16/23	
Surrogate: Toluene-d8		98.3 %	70-130	08/11/23	08/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2332106
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/11/23	08/16/23	
Surrogate: Bromofluorobenzene		102 %	70-130	08/11/23	08/16/23	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	08/11/23	08/16/23	
Surrogate: Toluene-d8		98.3 %	70-130	08/11/23	08/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KM		Batch: 2332103
Diesel Range Organics (C10-C28)	ND	25.0	1	08/11/23	08/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/11/23	08/15/23	
Surrogate: n-Nonane		89.4 %	50-200	08/11/23	08/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2333012
Chloride	ND	200	10	08/14/23	08/16/23	



Ensolum, LLC	Project Name:	RDX Federal 9 #005	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/17/2023 3:49:02PM

FS02 - 0.5' E308072-02

Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		nalyst: IY		Batch: 2332106
Benzene	ND	0.0250	1	08/11/23	08/16/23	
Ethylbenzene	ND	0.0250	1	08/11/23	08/16/23	
Toluene	ND	0.0250	1	08/11/23	08/16/23	
o-Xylene	ND	0.0250	1	08/11/23	08/16/23	
p,m-Xylene	ND	0.0500	1	08/11/23	08/16/23	
Total Xylenes	ND	0.0250	1	08/11/23	08/16/23	
Surrogate: Bromofluorobenzene		102 %	70-130	08/11/23	08/16/23	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	08/11/23	08/16/23	
Surrogate: Toluene-d8		98.8 %	70-130	08/11/23	08/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2332106
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/11/23	08/16/23	
Surrogate: Bromofluorobenzene		102 %	70-130	08/11/23	08/16/23	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	08/11/23	08/16/23	
Surrogate: Toluene-d8		98.8 %	70-130	08/11/23	08/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KM		Batch: 2332103
Diesel Range Organics (C10-C28)	ND	25.0	1	08/11/23	08/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/11/23	08/15/23	
Surrogate: n-Nonane		92.3 %	50-200	08/11/23	08/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2333012
Chloride	128	40.0	2	08/14/23	08/16/23	



Ensolum, LLC	Project Name:	RDX Federal 9 #005	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/17/2023 3:49:02PM

#### BH01 - 0' E308072-03

Dk			D	A	Notes
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	llyst: IY		Batch: 2332106
ND	0.0250	1	08/11/23	08/16/23	
ND	0.0250	1	08/11/23	08/16/23	
ND	0.0250	1	08/11/23	08/16/23	
ND	0.0250	1	08/11/23	08/16/23	
ND	0.0500	1	08/11/23	08/16/23	
ND	0.0250	1	08/11/23	08/16/23	
	99.5 %	70-130	08/11/23	08/16/23	
	95.4 %	70-130	08/11/23	08/16/23	
	99.1 %	70-130	08/11/23	08/16/23	
mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2332106
ND	20.0	1	08/11/23	08/16/23	
	99.5 %	70-130	08/11/23	08/16/23	
	95.4 %	70-130	08/11/23	08/16/23	
	99.1 %	70-130	08/11/23	08/16/23	
mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2332103
14400	1250	50	08/11/23	08/15/23	
6900	2500	50	08/11/23	08/15/23	
	78.0 %	50-200	08/11/23	08/15/23	
mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2333012
65.3	20.0	1	08/14/23	08/16/23	
	ND Mg/kg ND  mg/kg 14400 6900	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           99.5 %         95.4 %           99.1 %         99.1 %           mg/kg         mg/kg           ND         20.0           99.5 %         95.4 %           99.1 %         99.1 %           mg/kg         mg/kg           14400         1250           6900         2500           78.0 %         mg/kg           mg/kg         mg/kg	mg/kg         mg/kg         Ana           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           99.5 %         70-130         70-130           99.1 %         70-130         99.1 %           ND         20.0         1           99.5 %         70-130         99.1 %           99.1 %         70-130         99.1 %           99.1 %         70-130         99.1 %           mg/kg         mg/kg         Ana           14400         1250         50           6900         2500         50           mg/kg         mg/kg         Ana	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         08/11/23           ND         0.0250         1         08/11/23           ND         0.0250         1         08/11/23           ND         0.0250         1         08/11/23           ND         0.0500         1         08/11/23           ND         0.0250         1         08/11/23           99.5 %         70-130         08/11/23           99.1 %         70-130         08/11/23           99.1 %         70-130         08/11/23           99.5 %         70-130         08/11/23           99.5 %         70-130         08/11/23           99.5 %         70-130         08/11/23           99.1 %         70-130         08/11/23           99.1 %         70-130         08/11/23           99.1 %         70-130         08/11/23           99.1 %         70-130         08/11/23           99.1 %         70-130         08/11/23           900         2500         50         08/11/23           6900         2500	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         08/11/23         08/16/23           ND         0.0500         1         08/11/23         08/16/23           ND         0.0250         1         08/11/23         08/16/23           ND         0.0250         1         08/11/23         08/16/23           99.5 %         70-130         08/11/23         08/16/23           99.1 %         70-130         08/11/23         08/16/23           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         08/11/23         08/16/23           99.5 %         70-130         08/11/23         08/16/23           99.5 %         70-130         08/11/23         08/16/23           99.1 %         70-130         08/11/23         08/16/23           mg/kg         mg/



Ensolum, LLC	Project Name:	RDX Federal 9 #005	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/17/2023 3:49:02PM

#### BH01 - 1' E308072-04

		2000012 01					
Analyte	Result	Reporting Limit	Dil	lution	Prepared	Analyzed	Notes
	mg/kg	mg/kg		Analyst		- I mary zea	Batch: 2332106
Volatile Organic Compounds by EPA 8260B  Benzene	ND	0.0250		1	08/11/23	08/16/23	Batch: 2552100
Ethylbenzene	ND ND	0.0250		1	08/11/23	08/16/23	
Toluene	ND	0.0250		1	08/11/23	08/16/23	
o-Xylene	ND	0.0250		1	08/11/23	08/16/23	
p,m-Xylene	ND	0.0500		1	08/11/23	08/16/23	
Total Xylenes	ND	0.0250		1	08/11/23	08/16/23	
Surrogate: Bromofluorobenzene		107 %	70-130		08/11/23	08/16/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		08/11/23	08/16/23	
Surrogate: Toluene-d8		96.7 %	70-130		08/11/23	08/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2332106
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/11/23	08/16/23	
Surrogate: Bromofluorobenzene		107 %	70-130		08/11/23	08/16/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		08/11/23	08/16/23	
Surrogate: Toluene-d8		96.7 %	70-130		08/11/23	08/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2332103
Diesel Range Organics (C10-C28)	332	25.0		1	08/11/23	08/15/23	
Oil Range Organics (C28-C36)	169	50.0		1	08/11/23	08/15/23	
Surrogate: n-Nonane		94.9 %	50-200		08/11/23	08/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2333012
Chloride	2780	40.0		2	08/14/23	08/16/23	



Ensolum, LLC	Project Name:	RDX Federal 9 #005	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/17/2023 3:49:02PM

#### BH01 - 2' E308072-05

		E300072-03					
Analysta	Result	Reporting Limit		ıtion	Prepared	Analyzed	Notes
Analyte	Result	Limit	Dill	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2332106
Benzene	ND	0.0250	1	1	08/11/23	08/16/23	
Ethylbenzene	ND	0.0250	1	1	08/11/23	08/16/23	
Toluene	ND	0.0250	1	1	08/11/23	08/16/23	
o-Xylene	ND	0.0250	1	1	08/11/23	08/16/23	
p,m-Xylene	ND	0.0500	1	1	08/11/23	08/16/23	
Total Xylenes	ND	0.0250	1	1	08/11/23	08/16/23	
Surrogate: Bromofluorobenzene		105 %	70-130		08/11/23	08/16/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130		08/11/23	08/16/23	
Surrogate: Toluene-d8		99.5 %	70-130		08/11/23	08/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2332106
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/11/23	08/16/23	
Surrogate: Bromofluorobenzene		105 %	70-130		08/11/23	08/16/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130		08/11/23	08/16/23	
Surrogate: Toluene-d8		99.5 %	70-130		08/11/23	08/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2332103
Diesel Range Organics (C10-C28)	620	25.0		1	08/11/23	08/15/23	
Oil Range Organics (C28-C36)	322	50.0	1	1	08/11/23	08/15/23	
Surrogate: n-Nonane		95.7 %	50-200		08/11/23	08/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2333012
Chloride	897	20.0	1	1	08/14/23	08/16/23	



Ensolum, LLC	Project Name:	RDX Federal 9 #005	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/17/2023 3:49:02PM

#### BH01 - 3' E308072-06

		E500072-00					
Analyte	Result	Reporting Limit		ıtion	Prepared	Analyzed	Notes
Maryo	Result	Limit	Ditt	ation	Trepared	rmaryzed	rvotes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2332106
Benzene	ND	0.0250	į	1	08/11/23	08/16/23	
Ethylbenzene	ND	0.0250		1	08/11/23	08/16/23	
Toluene	ND	0.0250		1	08/11/23	08/16/23	
o-Xylene	ND	0.0250		1	08/11/23	08/16/23	
p,m-Xylene	ND	0.0500	į	1	08/11/23	08/16/23	
Total Xylenes	ND	0.0250		1	08/11/23	08/16/23	
Surrogate: Bromofluorobenzene		106 %	70-130		08/11/23	08/16/23	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		08/11/23	08/16/23	
Surrogate: Toluene-d8		97.6 %	70-130		08/11/23	08/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2332106
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/11/23	08/16/23	
Surrogate: Bromofluorobenzene		106 %	70-130		08/11/23	08/16/23	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		08/11/23	08/16/23	
Surrogate: Toluene-d8		97.6 %	70-130		08/11/23	08/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2332103
Diesel Range Organics (C10-C28)	105	25.0		1	08/11/23	08/15/23	
Oil Range Organics (C28-C36)	81.0	50.0		1	08/11/23	08/15/23	
Surrogate: n-Nonane		89.2 %	50-200	·	08/11/23	08/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2333012
Chloride	111	20.0		1	08/14/23	08/16/23	



RDX Federal 9 #005 Ensolum, LLC Project Name: Reported: 3122 National Parks Hwy Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Ashley Giovengo 8/17/2023 3:49:02PM **Volatile Organic Compounds by EPA 8260B** Analyst: IY Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2332106-BLK1) Prepared: 08/11/23 Analyzed: 08/15/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.503 0.500 101 70-130 Surrogate: 1,2-Dichloroethane-d4 0.486 0.500 97.2 70-130 0.500 101 70-130 Surrogate: Toluene-d8 0.507 LCS (2332106-BS1) Prepared: 08/11/23 Analyzed: 08/15/23 2.73 0.0250 2.50 109 70-130 Benzene 2.50 101 70-130 2.52 Ethylbenzene 0.0250 2.60 0.0250 2.50 104 70-130 2.71 70-130 0.0250 2.50 108 o-Xylene 5.32 5.00 106 70-130 p,m-Xylene 0.0500 8.04 0.0250 7.50 107 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.514 0.500 103 70-130 0.500 95.2 70-130 Surrogate: 1,2-Dichloroethane-d4 0.476 70-130 Surrogate: Toluene-d8 0.509 0.500 Matrix Spike (2332106-MS1) Source: E308071-07 Prepared: 08/11/23 Analyzed: 08/15/23 48-131 2.48 0.0250 2.50 ND 99.4 45-135 Ethylbenzene 2.31 0.0250 2.50 ND 92.4 94.9 48-130 Toluene 2.37 0.0250 2.50 ND 2.53 0.0250 2.50 ND 101 43-135 o-Xylene 4.95 5.00 ND 99.1 43-135 p,m-Xylene 0.0500 Total Xylenes 7.49 0.0250 7.50 ND 99.8 43-135 Surrogate: Bromofluorobenzene 0.513 0.500 103 70-130 0.495 0.500 99.0 70-130 Surrogate: 1,2-Dichloroethane-d4 0.500 70-130 0.503 Surrogate: Toluene-d8 Matrix Spike Dup (2332106-MSD1) Source: E308071-07 Prepared: 08/11/23 Analyzed: 08/16/23 2.66 0.0250 2.50 ND 107 48-131 6.97 23 2.45 0.0250 2.50 ND 97.8 45-135 5.76 27 Ethylbenzene



ND

ND

ND

ND

2.50

2.50

5.00

7.50

0.500

0.500

0.500

0.0250

0.0250

0.0500

0.0250

102

105

104

104

102

95.5

101

48-130

43-135

43-135

43-135

70-130

70-130

70-130

6.94

3.43

4.64

4.24

24

27

27

27

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

2.54

2.62

5.19

7.81

0.512

0.478

0.504

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

## **QC Summary Data**

Ensolum, LLC Project Name: RDX Federal 9 #005 Reported:
3122 National Parks Hwy Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Ashley Giovengo 8/17/2023 3:49:02PM

3122 National Parks Hwy Carlsbad NM, 88220		Project Number: Project Manager:		1058-0007 shley Giovengo	)				8/17/2023 3:49:02PI
	Non	halogenated (	Organics	by EPA 801	5D - Gl	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2332106-BLK1)							Prepared: 0	8/11/23	Analyzed: 08/15/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			
LCS (2332106-BS2)							Prepared: 0	8/11/23	Analyzed: 08/16/23
Gasoline Range Organics (C6-C10)	50.5	20.0	50.0		101	70-130			
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			
Matrix Spike (2332106-MS2)				Source: F	2308071-0	07	Prepared: 0	8/11/23	Analyzed: 08/16/23
Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			
Matrix Spike Dup (2332106-MSD2)				Source: F	2308071-0	07	Prepared: 0	8/11/23	Analyzed: 08/16/23
Gasoline Range Organics (C6-C10)	51.6	20.0	50.0	ND	103	70-130	2.36	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			

0.500

0.500

0.491

0.515

98.1

103

70-130

70-130



Ensolum, LLC	Project Name:	RDX Federal 9 #005	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/17/2023 3:49:02PM

Carisbad NM, 88220		Project Manage	r: As	niey Gioveng	go				8/17/2023 3:49:02PN
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2332103-BLK1)							Prepared: 0	8/11/23 A	nalyzed: 08/14/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	49.8		50.0		99.6	50-200			
LCS (2332103-BS1)							Prepared: 0	8/11/23 A	nalyzed: 08/14/23
Diesel Range Organics (C10-C28)	251	25.0	250		100	38-132			
urrogate: n-Nonane	48.3		50.0		96.5	50-200			
Matrix Spike (2332103-MS1)				Source:	E308071-0	01	Prepared: 0	8/11/23 A	nalyzed: 08/17/23
Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.9	38-132			
urrogate: n-Nonane	42.9		50.0		85.8	50-200			
Matrix Spike Dup (2332103-MSD1)				Source:	E308071-0	01	Prepared: 0	8/11/23 A	nalyzed: 08/17/23
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	2.69	20	
urrogate: n-Nonane	43.9		50.0		87.8	50-200			



Ensolum, LLC		Project Name: Project Number:		DX Federal 9 1058-0007	#005				Reported:
3122 National Parks Hwy Carlsbad NM, 88220		Project Manager		.shley Gioveng	go				8/17/2023 3:49:02PM
		Anions	by EPA	300.0/9056 <i>E</i>	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2333012-BLK1)							Prepared: 0	8/14/23	Analyzed: 08/16/23
Chloride	ND	20.0							
LCS (2333012-BS1)							Prepared: 0	8/14/23	Analyzed: 08/16/23
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2333012-MS1)				Source:	E308071-	01	Prepared: 0	8/14/23	Analyzed: 08/16/23
Chloride	811	40.0	250	586	89.8	80-120			
Matrix Spike Dup (2333012-MSD1)				Source:	E308071-	01	Prepared: 0	8/14/23	Analyzed: 08/16/23
Chloride	837	40.0	250	586	100	80-120	3.18	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**

	Ensolum, LLC	Project Name:	RDX Federal 9 #005	
-	3122 National Parks Hwy	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/17/23 15:49

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.



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Client: I	nsolum, LLC				Bill To			i	ab U	se Or	nly				TA	AT	EPA P	rogram
	<b>RDX</b> Federa				Attention: Jim Raley		Lab Wo	O#		Job	Num	ber	1D	2D	3D	Standard	CWA	SDWA
Project I	Aanager: As	hley Giov	vengo		Address: 5315 Buena Vista Dr		E 30		12	DI	57	-0007				X		
Address	3122 Natio	nal Parks	Hwy		City, State, Zip: Carlsbad NM, 8	8220						nd Metho	d	_				RCRA
City, Sta	e, Zip: Carls	sbad NM,	88220		Phone: (575)689-7597		1	1		Π				T				
Phone:	575-988-005	5			Email: jim.raley@dvn.com		RO										State	
Email: a	giovengo@e	ensolum.c	com				1 %				0		ΣN			NMI CO	UT AZ	TX
Report o	ue by:						NO/OR	802	3260	010	300				¥	×		
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		GDOC		Remarks	
13:20	8/9/2023	Soil	1 Jar		FS01 - 0'			w w		-	0		x		Ū			
12:28	8/9/2023	Soil	1 Jar		FS02 - 0.5'	2							х					
11:24	8/9/2023	Soil	1 Jar		BH01 - 0'	3							х					
11:28	8/9/2023	Soil	1 Jar		BH01 - 1'	4							х					
11:31	8/9/2023	Soil	1 Jar		BH01 - 2'	5							х					
11:45	8/9/2023	Soil	1 Jar		BH01 - 3'	0							х					
															,			
ddition	al Instructio	ns: Plea	se CC: cl	ourton@ensol	um.com, agiovengo@ensolum.com,	jim.raley@dv	n.com											
				ty of this sample. I	am aware that tampering with or intentionally mis gal action.  Sampled by:	labelling the samp	le location,									ceived on ice the day ess than 6 °C on subs		led or
elinquish	ed by: (Signatur	re)	Date	9 10,23 Time	Received by: (Signature)  Mille Guige		13 Tim	05	2	Rece	eived	on ice:	P. U.	ab Us	se On	ly		\
Muc		male	Date 8	10.23 Time	Received by: (Signature)	Date Co	23 7	73	3	T1			<u>T2</u>			<u>T3</u>		
Va	by: (Signatur	WSS0	Date	10.23 Time	336 Cather Mar	~ 8/11/2	3 8	:00	)	AVG	Ten	np °C	+					
	rix: <b>S</b> - Soil, <b>Sd</b> - S											, ag - amb						
					nless other arrangements are made. Hazard								ent e	xpens	e. The	e report for the a	analysis of t	he above



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Printed: 8/11/2023 12:49:55PM

#### **Envirotech Analytical Laboratory**

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:	Ensolum, LLC	Date Received:	08/11/23	08:00	Work Order ID:	E308072
Phone:	(575) 988-0055	Date Logged In:	08/10/23	15:45	Logged In By:	Alexa Michaels
Email:	a.giovengo@ensolum.com	Due Date:		17:00 (4 day TAT)	,	
	f Custody (COC)					
	the sample ID match the COC?	1.4. 606	Yes			
	the number of samples per sampling site location mat	ch the COC	Yes			
	samples dropped off by client or carrier?		Yes	Carrier: Courier		
	ne COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes			
5. Were	all samples received within holding time?  Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic		Yes		<u>Comment</u>	ts/Resolution
Sample '	<u> Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
<b>Sample</b>						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was tl	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes <u>C</u>			
Sample	<u>Container</u>					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?	•	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La						
	e field sample labels filled out with the minimum info	rmation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	<u>Preservation</u>					
	the COC or field labels indicate the samples were pr	eserved?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	o filteration required and/or requested for dissolved m	etals?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphas		No			
27. If ye	s, does the COC specify which phase(s) is to be analy	zed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract laborator	y?	No			
	a subcontract laboratory specified by the client and if	-	NA	Subcontract Lab: NA		
Client I	nstruction					
<u>enene i</u>	noti detion					
						_

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Ensolum, LLC

Project Name: RDX Federal 9 #005

Work Order: E308073

Job Number: 01058-0007

Received: 8/11/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/17/23

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

Date Reported: 8/17/23

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX Federal 9 #005

Workorder: E308073

Date Received: 8/11/2023 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/11/2023 8:00:00AM, under the Project Name: RDX Federal 9 #005.

The analytical test results summarized in this report with the Project Name: RDX Federal 9 #005 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

**Southern New Mexico Area** Lynn Jarboe

Technical Representative/Client Services

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### **Sample Summary**

_				
ſ	Ensolum, LLC	Project Name:	RDX Federal 9 #005	Reported:
l	3122 National Parks Hwy	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/17/23 14:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS03 - 0.5'	E308073-01A	Soil	08/09/23	08/11/23	Glass Jar, 2 oz.



Ensolum, LLC	Project Name:	RDX Federal 9 #005	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/17/2023 2:26:07PM

FS03 - 0.5' E308073-01

		2000070 01				
Acates	D14	Reporting Limit	Diluti	i Downerd	A la l	Notes
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	Analyst: IY	Batch: 2332106	
Benzene	ND	0.0250	1	08/11/23	08/16/23	
Ethylbenzene	ND	0.0250	1	08/11/23	08/16/23	
Toluene	ND	0.0250	1	08/11/23	08/16/23	
o-Xylene	ND	0.0250	1	08/11/23	08/16/23	
p,m-Xylene	ND	0.0500	1	08/11/23	08/16/23	
Total Xylenes	ND	0.0250	1	08/11/23	08/16/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/11/23	08/16/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	08/11/23	08/16/23	
Surrogate: Toluene-d8		100 %	70-130	08/11/23	08/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg mg/kg		А	Analyst: IY	Batch: 2332106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/11/23	08/16/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/11/23	08/16/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	08/11/23	08/16/23	
Surrogate: Toluene-d8		100 %	70-130	08/11/23	08/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: KM		Batch: 2332103
Diesel Range Organics (C10-C28)	ND	25.0	1	08/11/23	08/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/11/23	08/14/23	
Surrogate: n-Nonane		95.3 %	50-200	08/11/23	08/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: BA		Batch: 2333012
Chloride	458	40.0	2	08/14/23	08/16/23	



RDX Federal 9 #005 Ensolum, LLC Project Name: Reported: 3122 National Parks Hwy Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Ashley Giovengo 8/17/2023 2:26:07PM **Volatile Organic Compounds by EPA 8260B** Analyst: IY Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2332106-BLK1) Prepared: 08/11/23 Analyzed: 08/15/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.503 0.500 101 70-130 Surrogate: 1,2-Dichloroethane-d4 0.486 0.500 97.2 70-130 0.500 101 70-130 Surrogate: Toluene-d8 0.507 LCS (2332106-BS1) Prepared: 08/11/23 Analyzed: 08/15/23 2.73 0.0250 2.50 109 70-130 Benzene 2.50 101 70-130 2.52 Ethylbenzene 0.0250 2.60 0.0250 2.50 104 70-130 2.71 70-130 0.0250 2.50 108 o-Xylene 5.32 5.00 106 70-130 p,m-Xylene 0.0500 8.04 0.0250 7.50 107 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.514 0.500 103 70-130 0.500 95.2 70-130 Surrogate: 1,2-Dichloroethane-d4 0.476 70-130 Surrogate: Toluene-d8 0.509 0.500 Matrix Spike (2332106-MS1) Source: E308071-07 Prepared: 08/11/23 Analyzed: 08/15/23 48-131 2.48 0.0250 2.50 ND 99.4 45-135 Ethylbenzene 2.31 0.0250 2.50 ND 92.4 94.9 48-130 Toluene 2.37 0.0250 2.50 ND 2.53 0.0250 2.50 ND 101 43-135 o-Xylene 4.95 5.00 ND 99.1 43-135 p,m-Xylene 0.0500 Total Xylenes 7.49 0.0250 7.50 ND 99.8 43-135 Surrogate: Bromofluorobenzene 0.513 0.500 103 70-130 0.495 0.500 99.0 70-130 Surrogate: 1,2-Dichloroethane-d4 0.500 70-130 0.503 Surrogate: Toluene-d8 Matrix Spike Dup (2332106-MSD1) Source: E308071-07 Prepared: 08/11/23 Analyzed: 08/16/23 2.66 0.0250 2.50 ND 107 48-131 6.97 23 2.45 0.0250 2.50 ND 97.8 45-135 5.76 27 Ethylbenzene

ND

ND

ND

ND

2.50

2.50

5.00

7.50

0.500

0.500

0.500

0.0250

0.0250

0.0500

0.0250

102

105

104

104

102

95.5

101

48-130

43-135

43-135

43-135

70-130

70-130

70-130

6.94

3.43

4.64

4.24

24

27

27

27



Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

2.54

2.62

5.19

7.81

0.512

0.478

0.504

Ensolum, LLC Project Name: RDX Federal 9 #005 Reported:
3122 National Parks Hwy Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Ashley Giovengo 8/17/2023 2:26:07PM

Carlsbad NM, 88220		Project Manager	r: As	hley Gioveng	go			8/1	7/2023 2:26:07PM
	Non	Analyst: IY							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2332106-BLK1)							Prepared: 0	8/11/23 Analy	yzed: 08/15/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			
LCS (2332106-BS2)							Prepared: 0	8/11/23 Analy	zed: 08/16/23
Gasoline Range Organics (C6-C10)	50.5	20.0	50.0		101	70-130			
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			
Matrix Spike (2332106-MS2)				Source:	E308071-	07	Prepared: 0	8/11/23 Analy	zed: 08/16/23
Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			
Matrix Spike Dup (2332106-MSD2)				Source:	E308071-0	7	Prepared: 08	1/11/23 Analyzed: 08/16/23	
Gasoline Range Organics (C6-C10)	51.6	20.0	50.0	ND	103	70-130	2.36	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

Ensolum, LLC	Project Name:	RDX Federal 9 #005	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	_
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/17/2023 2:26:07PM

	Project Manager	r: As	hley Gioveng	go				8/17/2023 2:26:07PN
Nonha		Analyst: KM						
Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 0	8/11/23 A	nalyzed: 08/14/23
ND	25.0							
ND	50.0							
49.8		50.0		99.6	50-200			
						Prepared: 0	8/11/23 A	nalyzed: 08/14/23
251	25.0	250		100	38-132			
48.3		50.0		96.5	50-200			
			Source:	E308071-0	)1	Prepared: 0	8/11/23 A	nalyzed: 08/17/23
242	25.0	250	ND	96.9	38-132			
42.9		50.0		85.8	50-200			
			Source:	E308071-0	)1	Prepared: 0	8/11/23 A	nalyzed: 08/17/23
240	25.0	250	ND	99.6	38-132	2.69	20	
247	23.0	200	TAD	77.0	30 132	2.09	20	
	Result mg/kg  ND ND 49.8  251 48.3	Nonhalogenated Organic   Reporting   Limit   mg/kg     MD   25.0   ND   50.0   49.8     251   25.0   48.3     242   25.0   42.9	Nonhalogenated Organics by	Nonhalogenated Organics by EPA 8015    Result	Nonhalogenated Organics by EPA 8015D - DRO/Nonhalogenated Organics	Nonhalogenated Organics by EPA 8015D - DRO/ORO	Nonhalogenated Organics by EPA 8015D - DRO/ORO   Result   Rec   Limit   Level   Result   Rec   Limits   RPD   mg/kg   mg/kg   mg/kg   mg/kg   % % %   %   %   %	Nonhalogenated Organics by EPA 8015D - DRO/ORO   Reporting   Limit   Level   Result   Rec   Limits   RPD   Limit   mg/kg   mg/kg   mg/kg   % % % % % % % % % % % % % % % % % %



Chloride

### **QC Summary Data**

Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number Project Manager	: (	RDX Federal 9 01058-0007 Ashley Giovens					<b>Reported:</b> 8/17/2023 2:26:07PM	
Carisbau IVIVI, 88220		, ,							0/1//2023 2.20.0/1 W	
	Anions by EPA 300.0/9056A							Analyst: BA		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2333012-BLK1)					P			Prepared: 08/14/23 Analyzed: 08/16/23		
Chloride	ND	20.0								
LCS (2333012-BS1)							Prepared: 0	8/14/23	Analyzed: 08/16/23	
Chloride	252	20.0	250		101	90-110				
Matrix Spike (2333012-MS1)				Source:	Source: E308071-01			8/14/23	Analyzed: 08/16/23	
Chloride	811	40.0	250	586	89.8	80-120				
Matrix Spike Dup (2333012-MSD1)				Source:	Source: E308071-01			8/14/23	Analyzed: 08/16/23	

250

40.0

586

100

80-120

3.18

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**

Ensolum, LLC	Project Name:	RDX Federal 9 #005	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/17/23 14:26

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.



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Client: E	Ensolum, LLC			- International Control of the Contr		Bill To		Žanii	WAS	La	b Us	se Or	nly				TA	AT	EPA P	rogram
Marie	RDX Federa				Pathery Of State	tention: Jim Raley		Lab	WO#	t		Job	Num	ber	1D	2D	3D	Standard	CWA	SDWA
	Manager: As					dress: 5315 Buena Vista Dr		E.	301	607	13	010	052	3-0007				X		
	: 3122 Natio				The second second	y, State, Zip: Carlsbad NM, 88	3220					Analy	ysis a	nd Method	t					RCRA
	te, Zip: Carls		88220	-	Ph	one: (575)689-7597		1	by											
	575-988-005				<u>En</u>	nail: jim.raley@dvn.com			ORO										State	
-	ngiovengo@e	nsolum.c	om						RO/	Н	0		0.0		Z			NM CO	UT AZ	TX
Report o	due by:								0/0	802	826	5010	300				¥	×		
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		GDOC		Remarks	
12:31	8/9/2023	Soil	1 Jar			FS03 - 0.5'	1								х					
														1.						
4																				
8																				
																				-
					917															
Addition	nal Instructio	ns: Plea	se CC: cl	ourton@enso	olum.com	, agiovengo@ensolum.com, j	im.raley@dv	n.co	om											
	npler), attest to the					hat tampering with or intentionally misla Sampled by:	belling the samp	le loca	ation,									eived on ice the day		ed or
Relinquish	ned by: (Signatu	re)	Date	10/23 Tim	10:52	Received by: (Signature).	Date 8-10-6	13	Time	52		Rece	eived	on ice:		b Us	e Onl	у	ale tredition	= (1000)
Mic	ned by: (Signatu	uncels	Date 8	10-23 Tim	715	Received by: (Signature)	0 8·10	. 23	Time	7	30	T1			T2			Т3		
Relinquish	ned by: (Signatu	ne)	Date	10.03 C	330	Received by: (Signature)	- 8/11/2	3	Time	00		AVG	Tem	p°C_L	+					
	trix: S - Soil, Sd - S	Solid, Sg - Slu					Containe	r Typ	e: g - g	lass.				, ag - amb	er gla	ass. v	- VOA			
Note: Sam	ples are discard	ded 30 days	after resu	ts are reported	unless othe	r arrangements are made. Hazardo	us samples will	be re	eturned	to cli	ent o	r disp	osed o	of at the clie	ent ex	kpense	e. The	report for the a	nalysis of the	ne above
samples is	applicable only	to those sa	amples rec	eived by the lab	oratory wit	h this COC. The liability of the labora	tory is limited t	o the	amoun	t paid	ford	n the	repo	rt.			-		,	



e client expense. The report for the analysis of the above

envirotech

Printed: 8/11/2023 12:52:24PM

#### **Envirotech Analytical Laboratory**

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:	Ensolum, LLC	Date Received:	08/11/23	08:00	Work Order ID:	E308073
Phone:	(575) 988-0055	Date Logged In:	08/10/23	15:46	Logged In By:	Alexa Michaels
Email:	a.giovengo@ensolum.com	Due Date:		17:00 (4 day TAT)		
	f Custody (COC)					
	the sample ID match the COC?	1.1.000	Yes			
	the number of samples per sampling site location mat	ch the COC	Yes			
	samples dropped off by client or carrier?		Yes	Carrier: Courier		
	ne COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes			
5. Were	all samples received within holding time?  Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic		Yes		<u>Comment</u>	ts/Resolution
Sample '	<u> Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
<b>Sample</b>	<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample	<u>Container</u>					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?	,	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La						
	e field sample labels filled out with the minimum info	rmation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	<u>Preservation</u>					
	the COC or field labels indicate the samples were pr	eserved?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	o filteration required and/or requested for dissolved m	etals?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphas		No			
27. If ye	s, does the COC specify which phase(s) is to be analy	zed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract laborator	y?	No			
	a subcontract laboratory specified by the client and if	-	NA	Subcontract Lab: NA		
Client I	nstruction					
<u>Chent i</u>						
						_

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Devon Energy - Carlsbad

Project Name: RDX Federal 9 #005

Work Order: E310253

Job Number: 01058-0007

Received: 10/25/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 11/1/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/1/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: RDX Federal 9 #005

Workorder: E310253

Date Received: 10/25/2023 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/25/2023 8:30:00AM, under the Project Name: RDX Federal 9 #005.

The analytical test results summarized in this report with the Project Name: RDX Federal 9 #005 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

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ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative
Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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

#### **Sample Summary**

_			<u> </u>	
ſ	Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
l	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
l	Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/01/23 10:42

Client Sample ID	Lab Sample ID Mat	trix S	Sampled	Received C	Container
BH02 - 2'	E310253-01A Sc	oil	10/23/23	10/25/23	Glass Jar, 2 oz.



# Sample Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/1/2023 10:42:17AM

#### BH02 - 2' E310253-01

		E310253-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
- Amazyo				•	111111,200	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2343071
Benzene	ND	0.0250	1	10/25/23	10/27/23	
Ethylbenzene	ND	0.0250	1	10/25/23	10/27/23	
Toluene	ND	0.0250	1	10/25/23	10/27/23	
o-Xylene	ND	0.0250	1	10/25/23	10/27/23	
p,m-Xylene	ND	0.0500	1	10/25/23	10/27/23	
Total Xylenes	ND	0.0250	1	10/25/23	10/27/23	
Surrogate: 4-Bromochlorobenzene-PID		93.4 %	70-130	10/25/23	10/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2343071
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/23	10/27/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.0 %	70-130	10/25/23	10/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2343085
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/23	10/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/23	10/26/23	
Surrogate: n-Nonane		91.8 %	50-200	10/26/23	10/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2344007
Chloride	448	20.0	1	10/30/23	10/30/23	



		QC Si	ишш	ary Data	а				
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		DX Federal 9 1058-0007	#005				Reported:
Artesia NM, 88210		Project Manager:	A	shley Gioveng	go			11/	1/2023 10:42:17AM
		Volatile O	rganics	by EPA 802	21B			1	Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2343071-BLK1)							Prepared: 1	0/25/23 Anal	yzed: 10/27/23
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	7.70		8.00		96.3	70-130			
LCS (2343071-BS1)							Prepared: 1	0/25/23 Anal	yzed: 10/27/23
Benzene	4.92	0.0250	5.00		98.4	70-130			
Ethylbenzene	4.72	0.0250	5.00		94.3	70-130			
Toluene	4.91	0.0250	5.00		98.2	70-130			
o-Xylene	4.86	0.0250	5.00		97.1	70-130			
p,m-Xylene	9.73	0.0500	10.0		97.3	70-130			
Total Xylenes	14.6	0.0250	15.0		97.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.2	70-130			
Matrix Spike (2343071-MS1)				Source:	E310245-	02	Prepared: 1	0/25/23 Anal	yzed: 10/27/23
Benzene	4.83	0.0250	5.00	ND	96.6	54-133			
Ethylbenzene	4.62	0.0250	5.00	ND	92.4	61-133			
Toluene	4.82	0.0250	5.00	ND	96.3	61-130			
o-Xylene	4.77	0.0250	5.00	ND	95.4	63-131			
p,m-Xylene	9.55	0.0500	10.0	ND	95.5	63-131			
Total Xylenes	14.3	0.0250	15.0	ND	95.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			
Matrix Spike Dup (2343071-MSD1)				Source:	E310245-	02	Prepared: 1	0/25/23 Anal	yzed: 10/27/23
Benzene	5.01	0.0250	5.00	ND	100	54-133	3.76	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.5	61-133	3.28	20	
Toluene	4.99	0.0250	5.00	ND	99.7	61-130	3.44	20	
o-Xylene	4.92	0.0250	5.00	ND	98.4	63-131	3.11	20	
p,m-Xylene	9.85	0.0500	10.0	ND	98.5	63-131	3.11	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.5	63-131	3.11	20	

95.0

70-130



Surrogate: 4-Bromochlorobenzene-PID

Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Number:	RDX Federal 9 #005 01058-0007	Reported:
Artesia NM, 88210	Project Number: Project Manager:	Ashley Giovengo	11/1/2023 10:42:17AM

Artesia NM, 88210		Project Manage	r: As	shley Gioveng	go				11/1/2023 10:42:17AM		
	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: RKS		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes		
Blank (2343071-BLK1)							Prepared: 1	0/25/23	Analyzed: 10/27/23		
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.8	70-130					
LCS (2343071-BS2)							Prepared: 1	0/25/23	Analyzed: 10/27/23		
Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.5	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.8	70-130					
Matrix Spike (2343071-MS2)				Source:	E310245-	02	Prepared: 1	0/25/23	Analyzed: 10/27/23		
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130					
Matrix Spike Dup (2343071-MSD2)				Source:	E310245-	02	Prepared: 1	0/25/23	Analyzed: 10/27/23		
Gasoline Range Organics (C6-C10)	43.2	20.0	50.0	ND	86.5	70-130	3.13	20			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.6	70-130					

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	_
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/1/2023 10:42:17AM

Artesia NM, 88210		Project Manage	r: As	shley Gioveng	go				11/1/2023 10:42:17AN
	Nonhal	logenated Or	ganics by	EPA 8015I	D - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2343085-BLK1)							Prepared: 1	0/26/23	Analyzed: 10/26/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.5		50.0		101	50-200			
LCS (2343085-BS1)							Prepared: 1	0/26/23	Analyzed: 10/26/23
Diesel Range Organics (C10-C28)	243	25.0	250		97.1	38-132			
Surrogate: n-Nonane	46.1		50.0		92.1	50-200			
Matrix Spike (2343085-MS1)				Source:	E310251-	01	Prepared: 1	0/26/23	Analyzed: 10/26/23
Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132			
Surrogate: n-Nonane	45.5		50.0		91.0	50-200			
Matrix Spike Dup (2343085-MSD1)				Source:	E310251-	01	Prepared: 1	0/26/23	Analyzed: 10/26/23
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132	1.05	20	
Surrogate: n-Nonane	46.6		50.0		93.3	50-200			



Chloride

### **QC Summary Data**

Devon Energy - Carlsbad		Project Name:		DX Federal 9	#005				Reported:	
6488 7 Rivers Hwy Artesia NM, 88210		Project Number Project Manager		1058-0007 shley Gioveng	go				11/1/2023 10:42:17AM	M
		Anions	by EPA 3	300.0/9056 <i>A</i>	4				Analyst: BA	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2344007-BLK1)							Prepared:	10/30/23	Analyzed: 10/30/23	
Chloride	ND	20.0								
LCS (2344007-BS1)							Prepared:	10/30/23	Analyzed: 10/30/23	
Chloride	247	20.0	250		98.7	90-110				
Matrix Spike (2344007-MS1)				Source:	E310253-0	)1	Prepared:	10/30/23	Analyzed: 10/30/23	
Chloride	684	20.0	250	448	94.5	80-120				
Matrix Spike Dup (2344007-MSD1)				Source:	E310253-0	)1	Prepared:	10/30/23	Analyzed: 10/30/23	

250

20.0

448

98.6

80-120

1.49

#### 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 Federal 9 #005	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/01/23 10:42

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



_1	Received by
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	12/14/2023
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	Ma

Client: [	Devon Energy	/			Bill To			L	ab U	se On	ily			T	AT	EPA P	rogram
	<b>RDX Federal</b>				Attention: Jim Raley		Lab WC	D#		Job	Number	1	D 21	3D	Standard	CWA	SDWA
	Manager: As				Address: 5315 Buena Vista Dr		E31	02:	53	010	58.000	7			Х		
	3122 Natio				City, State, Zip: Carlsbad NM, 882	220					sis and Meth						RCRA
City, Sta	e, Zip: Carls	bad NM,	88220		Phone: (575)689-7597		þ										
	575-988-005				Email: jim.raley@dvn.com		ORO									State	
Email: a	giovengo@e	nsolum.c	com				30/0				0.0		Σ		NM CO	UT AZ	TX
Report d	ue by:						JQ/D	802	8260	9010	300			¥	×		
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		верос	GDOC		Remarks	
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Addition	al Instruction	ns: Plea	se CC: cl	urton@ensolu	ım.com, agiovengo@ensolum.com, jir	n.raley@dv	n.com, o	chami	ilton	@ens	olum.com,	eha	ft@ei	nsolum	ı.com		
					m aware that tampering with or intentionally mislab		le location,								ceived on ice the day		led or
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Sample Mati	ix: S - Soil, Sd - So	olid, Sg - Sluc	dge, A - Aqu	eous, O - Other	7,000							nbei	glass	v - VOA	4		
ote: Samp	les are discard	ed 30 days	after resul	ts are reported un	less other arrangements are made. Hazardou	s samples will	be return	ed to c	lient c	r dispo	lastic, ag - an osed of at the					analysis of t	he abov



e client expense. The report for the analysis of the above

Page 8

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145

Printed: 10/25/2023 12:48:04PM

#### **Envirotech Analytical Laboratory**

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:	10/25/23	08:30		Work Order ID:	E310253
Phone:	(505) 382-1211	Date Logged In:	10/24/23	16:36		Logged In By:	Caitlin Mars
Email:	ashley.giovengo@wescominc.com	Due Date:	10/31/23	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	Carrier. <u>c</u>	<u> </u>		
	Il samples received within holding time?	ion mining ses.	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion					Comments	s/Resolution
Sample T	<u> Curn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C							
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e 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				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
	,	temperature. 1	<u> </u>				
Sample C	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?	•	Yes				
	appropriate volume/weight or number of sample contains		Yes				
Field Lat		iers conecteur	105				
•	field sample labels filled out with the minimum info	rmation					
	ample ID?	imation.	Yes				
	ate/Time Collected?		Yes				
C	ollectors name?		Yes				
Sample P	reservation_						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborator	w9	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	v NIA		
		so who:	1421	Subcontract Lat	, NA		
Client Ir	<u>nstruction</u>						

Pro	ject In	format	tion
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Chain of Custody

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	e, Zip: Carls		, 88220			none: (575)689-7597				) by												
-	575-988-005				E	mail: jim.raley@dvn.	com			ORC		- 1								State		
A STATE OF THE PARTY OF THE PAR	giovengo@e	ensolum.c	com		-					ORO/	21	00	0	0.00		NN		¥	NM CO	UT AZ	TX	
Report d	ue by:									30/1	y 80	/ 82(	601	le 30	-				×			
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		GDOC		Remarks		
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samples is	applicable only	to those s	amples rec	eived by the	laboratory w	er arrangements are mad th this COC. The liability o	of the laboratory	is limited to	oe ret	urned	to cli	ent or	dispo n the	report.	at the cli	ent exp	ense.	The	report for the a	nalysis of th	ne above	



enviroteche enviroteche

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Devon Energy - Carlsbad

Project Name: RDX Federal 9 #005

Work Order: E310251

Job Number: 01058-0007

Received: 10/25/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 11/3/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/3/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: RDX Federal 9 #005

Workorder: E310251

Date Received: 10/25/2023 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/25/2023 8:30:00AM, under the Project Name: RDX Federal 9 #005.

The analytical test results summarized in this report with the Project Name: RDX Federal 9 #005 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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**Alexa Michaels** 

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Michelle Golzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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#### **Sample Summary**

_				
Γ	Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
l	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
1	Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/03/23 10:49

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 - 0'	E310251-01A	Soil	10/23/23	10/25/23	Glass Jar, 2 oz.



# Sample Data

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/3/2023 10:49:27AM

#### BH02 - 0' E310251-01

		E310231-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2343071
Benzene	ND	0.0250	1	10/25/23	10/27/23	
Ethylbenzene	ND	0.0250	1	10/25/23	10/27/23	
Toluene	ND	0.0250	1	10/25/23	10/27/23	
o-Xylene	ND	0.0250	1	10/25/23	10/27/23	
p,m-Xylene	ND	0.0500	1	10/25/23	10/27/23	
Total Xylenes	ND	0.0250	1	10/25/23	10/27/23	
Surrogate: 4-Bromochlorobenzene-PID		95.1 %	70-130	10/25/23	10/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2343071
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/23	10/27/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.2 %	70-130	10/25/23	10/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2343085
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/23	10/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/23	10/26/23	
Surrogate: n-Nonane		91.8 %	50-200	10/26/23	10/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2344007
Chloride	86.8	20.0	1	10/30/23	10/30/23	



		₹ € ≈		ir y Duc					
Devon Energy - Carlsbad		Project Name:	R	DX Federal 9	#005				Reported:
6488 7 Rivers Hwy		Project Number:	01	1058-0007					•
Artesia NM, 88210		Project Manager:	A	shley Gioven	go			11/3	3/2023 10:49:27AM
		Volatile O	rganics l	by EPA 802	21B			A	Analyst: RKS
Analyte		Reporting	Spike	Source		Rec		RPD	
Amaryte	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2343071-BLK1)							Prepared: 1	0/25/23 Analy	yzed: 10/27/23
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	7.70		8.00		96.3	70-130			
LCS (2343071-BS1)							Prepared: 1	0/25/23 Analy	yzed: 10/27/23
Benzene	4.92	0.0250	5.00		98.4	70-130			
Ethylbenzene	4.72	0.0250	5.00		94.3	70-130			
Toluene	4.91	0.0250	5.00		98.2	70-130			
o-Xylene	4.86	0.0250	5.00		97.1	70-130			
p,m-Xylene	9.73	0.0500	10.0		97.3	70-130			
Total Xylenes	14.6	0.0250	15.0		97.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.2	70-130			
Matrix Spike (2343071-MS1)				Source:	E310245-	02	Prepared: 1	0/25/23 Analy	yzed: 10/27/23
Benzene	4.83	0.0250	5.00	ND	96.6	54-133			
Ethylbenzene	4.62	0.0250	5.00	ND	92.4	61-133			
Toluene	4.82	0.0250	5.00	ND	96.3	61-130			
o-Xylene	4.77	0.0250	5.00	ND	95.4	63-131			
p,m-Xylene	9.55	0.0500	10.0	ND	95.5	63-131			
Total Xylenes	14.3	0.0250	15.0	ND	95.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			
Matrix Spike Dup (2343071-MSD1)				Source:	E310245-	02	Prepared: 1	0/25/23 Analy	yzed: 10/27/23
Benzene	5.01	0.0250	5.00	ND	100	54-133	3.76	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.5	61-133	3.28	20	
Toluene	4.99	0.0250	5.00	ND	99.7	61-130	3.44	20	
o-Xylene	4.92	0.0250	5.00	ND	98.4	63-131	3.11	20	
p,m-Xylene	9.85	0.0500	10.0	ND	98.5	63-131	3.11	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.5	63-131	3.11	20	
· · · · · · · · · · · · · · · · · · ·									

8.00

7.60

70-130



Surrogate: 4-Bromochlorobenzene-PID

Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Number:	RDX Federal 9 #005 01058-0007	Reported:
Artesia NM, 88210	Project Number: Project Manager:	Ashley Giovengo	11/3/2023 10:49:27AM

Artesia NM, 88210		Project Manage	r: As	shley Gioven	go				11/3/2023 10:49:27AN
	Nor	nhalogenated	Organics	by EPA 80	15D - Gl	RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2343071-BLK1)							Prepared: 1	0/25/23	Analyzed: 10/27/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.8	70-130			
LCS (2343071-BS2)							Prepared: 1	0/25/23	Analyzed: 10/27/23
Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.8	70-130			
Matrix Spike (2343071-MS2)				Source:	E310245-0	02	Prepared: 1	0/25/23	Analyzed: 10/27/23
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130			
Matrix Spike Dup (2343071-MSD2)				Source:	E310245-0	02	Prepared: 1	0/25/23	Analyzed: 10/27/23
Gasoline Range Organics (C6-C10)	43.2	20.0	50.0	ND	86.5	70-130	3.13	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.6	70-130			



Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	·
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/3/2023 10:49:27AM

Artesia NM, 88210		Project Manage	r: As	shley Gioveng	go				11/3/2023 10:49:27AN
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2343085-BLK1)							Prepared: 1	0/26/23	Analyzed: 10/26/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.5		50.0		101	50-200			
LCS (2343085-BS1)							Prepared: 1	0/26/23	Analyzed: 10/26/23
Diesel Range Organics (C10-C28)	243	25.0	250		97.1	38-132			
Surrogate: n-Nonane	46.1		50.0		92.1	50-200			
Matrix Spike (2343085-MS1)				Source:	E310251-	01	Prepared: 1	0/26/23	Analyzed: 10/26/23
Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132			
Surrogate: n-Nonane	45.5		50.0		91.0	50-200			
Matrix Spike Dup (2343085-MSD1)				Source:	E310251-	01	Prepared: 1	0/26/23	Analyzed: 10/26/23
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132	1.05	20	
Surrogate: n-Nonane	46.6		50.0		93.3	50-200			

Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:	j			DX Federal 9 #005 1058-0007						
Artesia NM, 88210		Project Number: Project Manager		shley Gioven				11/3/2023 10:49:27AM				
		Anions	by EPA	300.0/9056	4				Analyst: BA			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2344007-BLK1)							Prepared:	10/30/23	Analyzed: 10/30/23			
Chloride	ND	20.0										
LCS (2344007-BS1)							Prepared:	10/30/23	Analyzed: 10/30/23			
Chloride	247	20.0	250		98.7	90-110						
Matrix Spike (2344007-MS1)				Source:	E310253-0	01	Prepared:	10/30/23	Analyzed: 10/30/23			
Chloride	684	20.0	250	448	94.5	80-120						
Matrix Spike Dup (2344007-MSD1)				Source:	E310253-0	01	Prepared:	10/30/23	Analyzed: 10/30/23			
Chloride	695	20.0	250	448	98.6	80-120	1.49	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**

	Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	
1	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
1	Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/03/23 10:49

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



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	Client: Devon Energy Project: RDX Federal 28 #023					Bill To				La	b U	se On	ly				TA	AT .	EPA P	rogram
						tention: Jim Raley		Lab	WO#	-		Job			1D	2D	3D	Standard	CWA	SDWA
	Manager: As					ddress: 5315 Buena Vista Dr		E	310	25		00	28.	7000				X		
	3122 Natio					ty, State, Zip: Carlsbad NM, 8	3220							nd Metho	d					RCRA
	te, Zip: Carls		88220		Ph	none: (575)689-7597			by											
-	575-988-005				Er	nail: jim.raley@dvn.com			ORO								1 1		State	
	giovengo@e	nsolum.	com						RO/	-	0		0.0		Σ			NM CO	UT AZ	TX
Report d	lue by:								0/D	802	826	5010	300				¥	×		
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		GDOC		Remarks	
9:49	10/23/2023	Soil	1			BH02 - 0'	1			T					х					
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e client expense. The report for the analysis of the above

Page 99

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envirotech Inc.

Printed: 10/25/2023 12:37:26PM

#### **Envirotech Analytical Laboratory**

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:	10/25/23 0	08:30		Work Order ID:	E310251
Phone:	(505) 382-1211	Date Logged In:	10/24/23 1	6:34		Logged In By:	Caitlin Mars
Email:	ashley.giovengo@wescominc.com	Due Date:	10/31/23 1	17:00 (4 day TAT)			
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
2. Does th	ne number of samples per sampling site location ma	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: Co	<u>ourier</u>		
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes				
5. Were al	Il samples received within holding time?  Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes			Comments	s/Resolution
Sample T	urn Around Time (TAT)			Γ			
	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e 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				
	e sample received on ice? If yes, the recorded temp is 4°C.  Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
Sample C		remperature. 1	<u>~</u>				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	9	Yes				
	appropriate volume/weight or number of sample contain		Yes				
	· · ·	ners conected?	105				
Field Lab	field sample labels filled out with the minimum info	rmation:					
	ample ID?	offination.	Yes				
	ate/Time Collected?		Yes	L			
	ollectors name?		Yes				
Sample P	<u>reservation</u>						
21. Does	the COC or field labels indicate the samples were p	reserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	, does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborato	ary?	No				
	subcontract laboratory specified by the client and i	-	NA	Subcontract Lab:	· N Δ		
		i so who.	1111	Subcontract Lab.	. IVA		
Client In	<u>astruction</u>						

Date

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

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Project	Manager: As	shley Gio	vengo			Address: 5315 Buena Vista Dr		E	310	251				000	1				X		
-	: 3122 Natio					City, State, Zip: Carlsbad NM, 882	220							nd Met					P. C. Connection of the Connec		RCRA
	te, Zip: Carls		88220			Phone: (575)689-7597			þý											V.	
Phone:	575-988-005	55				Email: jim.raley@dvn.com			ORO										170000 (AM (0.47) (1700) (1700)	State	
	agiovengo@e	ensolum.	com						0/0	П			0.			Z		-	NM CC	UT AZ	TX
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Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number		TPH GRO/DRO/ORO by 8015	ВТЕХ by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC		GDOC		Remarks	
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	rix: S - Soil, Sd - So						Container	Туре	: g - g	lass, p	o - pc	ly/pla	astic,	ag - an	nber	glass	, v -	VOA			
Note: Samp	oles are discard	ed 30 days	arter result	s are reported u	inless o	ther arrangements are made. Hazardous	samples will b	e ret	urned	to clie	ent or	dispos	sed o	f at the	clien	expe	ense.	The r	eport for the	analysis of t	he above
samples is a	applicable only	to those sa	mpies rece	ived by the labo	ratory	with this COC. The liability of the laborato	ry is limited to	the a	mount	t paid	for o	n the r	epor	t.							



e client expense. The report for the analysis of the above

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Devon Energy - Carlsbad

Project Name: RDX Federal 9 #005

Work Order: E310254

Job Number: 01058-0007

Received: 10/25/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 11/3/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/3/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: RDX Federal 9 #005

Workorder: E310254

Date Received: 10/25/2023 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/25/2023 8:30:00AM, under the Project Name: RDX Federal 9 #005.

The analytical test results summarized in this report with the Project Name: RDX Federal 9 #005 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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### **Sample Summary**

_			-	
Γ	Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	Reported:
l	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
1	Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/03/23 10:47

Client Sample ID	Lab Sample ID Ma	atrix	Sampled	Received	Container
BH02 - 3'	E310254-01A S	Soil	10/23/23	10/25/23	Glass Jar, 2 oz.



# **Sample Data**

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/3/2023 10:47:55AM

#### BH02 - 3' E310254-01

		E310254-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
. many te	resur			1	111111111111111111111111111111111111111	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2343071
Benzene	ND	0.0250	1	10/25/23	10/27/23	
Ethylbenzene	ND	0.0250	1	10/25/23	10/27/23	
Toluene	ND	0.0250	1	10/25/23	10/27/23	
o-Xylene	ND	0.0250	1	10/25/23	10/27/23	
p,m-Xylene	ND	0.0500	1	10/25/23	10/27/23	
Total Xylenes	ND	0.0250	1	10/25/23	10/27/23	
Surrogate: 4-Bromochlorobenzene-PID		93.6 %	70-130	10/25/23	10/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2343071
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/23	10/27/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	10/25/23	10/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: JL		Batch: 2343085
Diesel Range Organics (C10-C28)	ND	25.0	1	10/26/23	10/26/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/26/23	10/26/23	
Surrogate: n-Nonane		92.4 %	50-200	10/26/23	10/26/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2344007
Chloride	425	20.0	1	10/30/23	10/30/23	



		QC S	umma	ii y Dai	a				
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	01	DX Federal 9 1058-0007 shley Gioven					Reported: 11/3/2023 10:47:55AN
				by EPA 802					
		voiatile O	rgames	Uy EFA OU	41D				Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2343071-BLK1)							Prepared: 1	.0/25/23 A	Analyzed: 10/27/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Coluene	ND	0.0250							
-Xylene	ND	0.0250							
,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			
LCS (2343071-BS1)							Prepared: 1	0/25/23 A	Analyzed: 10/27/23
Benzene	4.92	0.0250	5.00		98.4	70-130			
Ethylbenzene	4.72	0.0250	5.00		94.3	70-130			
Coluene	4.91	0.0250	5.00		98.2	70-130			
-Xylene	4.86	0.0250	5.00		97.1	70-130			
,m-Xylene	9.73	0.0500	10.0		97.3	70-130			
Total Xylenes	14.6	0.0250	15.0		97.3	70-130			
urrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.2	70-130			
Matrix Spike (2343071-MS1)				Source:	E310245-	02	Prepared: 1	0/25/23 A	Analyzed: 10/27/23
Benzene	4.83	0.0250	5.00	ND	96.6	54-133			
Ethylbenzene	4.62	0.0250	5.00	ND	92.4	61-133			
Coluene	4.82	0.0250	5.00	ND	96.3	61-130			
-Xylene	4.77	0.0250	5.00	ND	95.4	63-131			
,m-Xylene	9.55	0.0500	10.0	ND	95.5	63-131			
Total Xylenes	14.3	0.0250	15.0	ND	95.5	63-131			
urrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			
Matrix Spike Dup (2343071-MSD1)				Source:	E310245-	02	Prepared: 1	.0/25/23 A	Analyzed: 10/27/23
Benzene	5.01	0.0250	5.00	ND	100	54-133	3.76	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.5	61-133	3.28	20	
Coluene	4.99	0.0250	5.00	ND	99.7	61-130	3.44	20	
Matrix Spike Dup (2343071-MSD1)  Benzene Ethylbenzene	5.01 4.78	0.0250	5.00	ND ND	100 95.5	54-133 61-133	3.76 3.28	20 20	Analyzed: 10

5.00

10.0

15.0

8.00

0.0250

0.0500

0.0250

ND

ND

ND

98.4

98.5

98.5

63-131

63-131

63-131

70-130

3.11

3.11

3.11

20

20

20

o-Xylene

p,m-Xylene Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

4.92

9.85

14.8

7.60

Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Number:	RDX Federal 9 #005 01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/3/2023 10:47:55AM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go			11	/3/2023 10:47:55AM
	Non	halogenated	Analyst: RKS						
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2343071-BLK1)							Prepared: 1	0/25/23 Ana	alyzed: 10/27/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.8	70-130			
LCS (2343071-BS2)							Prepared: 1	0/25/23 Ana	alyzed: 10/27/23
Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.8	70-130			
Matrix Spike (2343071-MS2)				Source:	E310245-0	02	Prepared: 1	0/25/23 Ana	alyzed: 10/27/23
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130			
Matrix Spike Dup (2343071-MSD2)				Source:	E310245-0	02	Prepared: 1	0/25/23 Ana	alyzed: 10/27/23
Gasoline Range Organics (C6-C10)	43.2	20.0	50.0	ND	86.5	70-130	3.13	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.6	70-130			

# **QC Summary Data**

Devon Energy - Carlsbad 6488 7 Rivers Hwy	Project Name: Project Number:	RDX Federal 9 #005 01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/3/2023 10:47:55AM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go				11/3/2023 10:47:55AN
	Nonhal	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2343085-BLK1)							Prepared: 1	0/26/23	Analyzed: 10/26/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.5		50.0		101	50-200			
LCS (2343085-BS1)							Prepared: 1	0/26/23	Analyzed: 10/26/23
Diesel Range Organics (C10-C28)	243	25.0	250		97.1	38-132			
Surrogate: n-Nonane	46.1		50.0		92.1	50-200			
Matrix Spike (2343085-MS1)				Source:	E310251-	01	Prepared: 1	0/26/23	Analyzed: 10/26/23
Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132			
Surrogate: n-Nonane	45.5		50.0		91.0	50-200			
Matrix Spike Dup (2343085-MSD1)				Source:	E310251-	01	Prepared: 1	0/26/23	Analyzed: 10/26/23
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132	1.05	20	
Surrogate: n-Nonane	46.6		50.0		93.3	50-200			

Matrix Spike Dup (2344007-MSD1)

Chloride

### **QC Summary Data**

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager	0	DX Federal 9 1058-0007 .shley Gioveng				1	<b>Reported:</b> 1/3/2023 10:47:55AM
		Anions	by EPA	300.0/9056 <i>£</i>	4				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2344007-BLK1)							Prepared: 1	0/30/23 An	alyzed: 10/30/23
Chloride	ND	20.0							
LCS (2344007-BS1)							Prepared: 1	0/30/23 An	alyzed: 10/30/23
Chloride	247	20.0	250		98.7	90-110			
Matrix Spike (2344007-MS1)				Source:	E310253-	01	Prepared: 1	0/30/23 An	alyzed: 10/30/23
Chloride	684	20.0	250	448	94.5	80-120			

250

20.0

Source: E310253-01

98.6

80-120

1.49

#### 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.



Prepared: 10/30/23 Analyzed: 10/30/23

20

# **Definitions and Notes**

Devon Energy - Carlsbad	Project Name:	RDX Federal 9 #005	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/03/23 10:47

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



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Client: I	Devon Energy	y .				Bill To	10			Lá	ab U	se Or	nly				TA	AT	EPA P	rogram
Project:	RDX Federa	28 #023				tention: Jim Raley		Lab	WO#	ŧ		Job	Num	ber	1	D 2D	3D	Standard	CWA	SDWA
	Manager: As				A	ddress: 5315 Buena Vista Dr		E.	310	25	14	OI	05	8.000	57			Х		
Address	: 3122 Natio	nal Parks	Hwy		Ci	ty, State, Zip: Carlsbad NM, 8822	20					Analy	ysis a	nd Meth	nod					RCRA
City, Sta	te, Zip: Carls	bad NM,	88220		PH	none: (575)689-7597			by											
Phone:	575-988-005	5			Er	nail: jim.raley@dvn.com			ORO										State	
Email: a	giovengo@e	nsolum.	com						0/0	1			0.		16	N	1.30	NM CO	UT AZ	TX
Report o	due by:								J/DF	802	3260	010	300		- 1		¥	×		TO CO
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			Sepor	GDOC		Remarks	
10:40	10/23/2023	Soil	1			BH02 - 3'	1									X				
															+	+				
I, (field sam	pler), attest to th	e validity an	d authentici		am aware	n, agiovengo@ensolum.com, jim that tampering with or intentionally mislabe Sampled by: Chad Ham				iamil	lton(	Sample	es requi	ring therma	of pres	ervation r	nust be re	n.com ceived on ice the day less than 6 °C on subse	The second of the second	led or
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	trix: S - Soil, Sd - S						Containe		_	_			_			-				
						er arrangements are made. Hazardous th this COC. The liability of the laborator									clien	t exper	se. The	e report for the a	analysis of t	he above



e client expense. The report for the analysis of the above

envirotech

Printed: 10/25/2023 12:53:21PM

### **Envirotech Analytical Laboratory**

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:	10/25/23	08:30	Work Order ID:	E310254
Phone:	(505) 382-1211	Date Logged In:	10/24/23	16:37	Logged In By:	Caitlin Mars
Email:	ashley.giovengo@wescominc.com	Due Date:	10/31/23	17:00 (4 day TAT)		
Ch -i	S.C., t. L. (COC)					
	f Custody (COC)		**			
	the sample ID match the COC? The number of samples per sampling site location ma	tch the COC	Yes			
	samples dropped off by client or carrier?	ten the coc	Yes	o · o ·		
	ne COC complete, i.e., signatures, dates/times, reque	eted analyses?	Yes Yes	Carrier: Courier		
	all samples received within holding time?	sica anaryses:	Yes			
J. Wele	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		103		Comment	s/Resolution
	<u> Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was tl	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C.  Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample	<u>Container</u>					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La	· · ·					
•	e field sample labels filled out with the minimum info	ormation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	<u>Preservation</u>					
	the COC or field labels indicate the samples were p	reserved?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	o filteration required and/or requested for dissolved n	netals?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multipha		No			
27. If ye	s, does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcont	ract Laboratory					
28. Are s	samples required to get sent to a subcontract laborato	ry?	No			
	a subcontract laboratory specified by the client and i	•	NA	Subcontract Lab: NA		
Client I	nstruction					
<u>eneme i</u>	non action					

Date

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

RO	X Fed	l ma	94	4005														85
Client:	Devon Energ	λ.	71	B 0 9 9		Bill To	100	Tease.		Lab U	se Or	าได้	ZÍ -	-	TA		FPA Pr	ogram
THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	RDX Federa					Attention: Jim Raley		Lab V	/O#		TO SERVICE STREET, STR	Number	1D	2D.	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Standard	CWA	SDWA
THE RESERVE AND ADDRESS OF THE PARTY OF THE	Manager: As					Address: 5315 Buena Vista D		JE3	SO	54	E-101/05/1003	058.000				X		
CONTRACTOR STATEMENT	: 3122 Natio	THE RESERVE AND DESCRIPTION OF THE PERSON NAMED IN			Water Street	City, State, Zip: Carlsbad NM,	88220					sis and Metho		-				RCRA
	te, Zip: Carl: 575-988-005		88220		100000000000000000000000000000000000000	Phone: (575)689-7597	-	- M										
SURPLIES WAS ACCUSED AND ADDRESS.	giovengo@e		om			mail: jim.raley@dvn.com	<u>iana</u>	Jac.									State	
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Time	Date Sampled	Matrix	.No. of	Sample ID	Total and a		Lab	GRO	8015 BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	20			×		
Sampled		Mottix	Containers	Sairithie ID		To the second se	Number	HdT	8015 BTE	VOC	Meta	Chlo	верос		GDOC		Remarks	
10:40	10/23/2023	Soil	1			BH02 - 3'	1						X			01.		
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iote: Sampl	es are discarde	d 30 days a	fter results	are reported t	inless other	er arrangements are made. Hazard	dous samples will l	e return	ed to c	lient or	dispo	sed of at the cli	ent ex	pense.	Ther	eport for the ar	nalysis of th	e 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.



e client expense. The report for the analysis of the above age environment of the control of the

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

**Devon Energy** 

Project Name: RDX Federal 9 #005

Work Order: E311207

Job Number: 01058-0007

Received: 11/28/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 12/5/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/5/23

Ashley Giovengo PO Box 6459 Navajo Dam, NM 87419

Project Name: RDX Federal 9 #005

Workorder: E311207

Date Received: 11/28/2023 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/28/2023 7:30:00AM, under the Project Name: RDX Federal 9 #005.

The analytical test results summarized in this report with the Project Name: RDX Federal 9 #005 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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**Alexa Michaels** 

Sample Custody Officer Office: 505-632-1881

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Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

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ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative
Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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### **Sample Summary**

Devon Energy		Project Name:	RDX Federal 9 #005	Donoutoda
PO Box 6459		Project Number:	01058-0007	Reported:
Navajo Dam N	M, 87419	Project Manager:	Ashley Giovengo	12/05/23 16:20

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
FS04-0.5'	E311207-01A Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
FS05-0.5'	E311207-02A Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
FS06-0.5'	E311207-03A Soil	11/22/23	11/28/23	Glass Jar, 2 oz.



# Sample Data

Devon Energy	Project Name:	RDX Federal 9 #005	
PO Box 6459	Project Number:	01058-0007	Reported:
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	12/5/2023 4:20:32PM

### FS04-0.5' E311207-01

		E311207-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2348038
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2348038
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.2 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2348083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/30/23	12/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/30/23	12/02/23	
Surrogate: n-Nonane		95.1 %	50-200	11/30/23	12/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2349005
Chloride	117	40.0	2	12/04/23	12/05/23	



# **Sample Data**

Devon Energy	Project Name:	RDX Federal 9 #005	
PO Box 6459	Project Number:	01058-0007	Reported:
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	12/5/2023 4:20:32PM

# FS05-0.5'

		E311207-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2348038
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2348038
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: KM		Batch: 2348083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/30/23	12/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/30/23	12/02/23	
Surrogate: n-Nonane		92.6 %	50-200	11/30/23	12/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2349005
Chloride	157	20.0	1	12/04/23	12/05/23	



# **Sample Data**

Devon Energy	Project Name:	RDX Federal 9 #005	
PO Box 6459	Project Number:	01058-0007	Reported:
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	12/5/2023 4:20:32PM

### FS06-0.5' E311207-03

		E311207-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
			A noly	yst: RAS		Batch: 2348038
Volatile Organics by EPA 8021B	mg/kg	mg/kg			44/00/00	Batch: 2346036
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2348038
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2348083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/30/23	12/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/30/23	12/02/23	
Surrogate: n-Nonane		89.0 %	50-200	11/30/23	12/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2349005
Chloride	245	20.0	1	12/04/23	12/05/23	



p,m-Xylene

Total Xylenes

Ethylbenzene Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 4-Bromochlorobenzene-PID

Matrix Spike Dup (2348038-MSD1)

### **QC Summary Data**

RDX Federal 9 #005 Devon Energy Project Name: Reported: PO Box 6459 Project Number: 01058-0007 Navajo Dam NM, 87419 Project Manager: Ashley Giovengo 12/5/2023 4:20:32PM **Volatile Organics by EPA 8021B** Analyst: RAS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2348038-BLK1) Prepared: 11/28/23 Analyzed: 11/28/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.92 8.00 99.0 70-130 LCS (2348038-BS1) Prepared: 11/28/23 Analyzed: 11/28/23 5.56 111 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.46 0.0250 5.00 109 70-130 5.53 0.0250 5.00 111 70-130 Toluene 110 o-Xylene 5.48 0.0250 5.00 70-130 11.1 10.0 111 70-130 0.0500 p.m-Xvlene 111 70-130 15.0 Total Xylenes 16.6 0.0250 8.00 99.3 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.94 Matrix Spike (2348038-MS1) Source: E311208-03 Prepared: 11/28/23 Analyzed: 11/28/23 5.41 0.0250 5.00 ND 54-133 Benzene ND 61-133 Ethylbenzene 5.32 0.0250 5.00 106 Toluene 5.38 0.0250 5.00 ND 108 61-130 5.34 ND 107 63-131 5.00 0.0250 o-Xylene

10.0

15.0

8.00

5.00

5.00

5.00

5.00

10.0

15.0

8.00

ND

ND

ND

ND

ND

ND

ND

ND

108

101

102

101

103

103

97.5

Source: E311208-03

63-131

63-131

70-130

54-133

61-133

61-130

63-131

63-131

63-131

70-130

5.02

4.82

5.09

5.11

4.72

4.85

10.8

7.85

5.15

5.07

5.12

5.07

10.3

15.4

7.80

0.0500

0.0250

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250



Prepared: 11/28/23 Analyzed: 11/28/23

20

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# **QC Summary Data**

Devon Energy	Project Name:	RDX Federal 9 #005	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	12/5/2023 4:20:32PM

Navajo Dam NM, 87419		Project Manage	r: As	hley Gioveng	go				12/5/2023 4:20:32PN
	Non	halogenated	Organics l	oy EPA 80	15D - GI	RO			Analyst: RAS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2348038-BLK1)							Prepared: 1	1/28/23 At	nalyzed: 11/28/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.7	70-130			
LCS (2348038-BS2)							Prepared: 1	1/28/23 Ar	nalyzed: 11/28/23
Gasoline Range Organics (C6-C10)	47.3	20.0	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130			
Matrix Spike (2348038-MS2)				Source:	E311208-0	)3	Prepared: 1	1/28/23 At	nalyzed: 11/28/23
Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			
Matrix Spike Dup (2348038-MSD2)				Source:	E311208-0	)3	Prepared: 1	1/28/23 Ar	nalyzed: 11/28/23
Gasoline Range Organics (C6-C10)	51.4	20.0	50.0	ND	103	70-130	0.766	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			



# **QC Summary Data**

Devon Energy	Project Name:	RDX Federal 9 #005	Reported:
PO Box 6459	Project Number:	01058-0007	
Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	12/5/2023 4:20:32PM

Navajo Dam NM, 87419		Project Manage	r: As	hley Gioveng	go				12/5/2023 4:20:32PN
	Nonha	logenated Or	ganics by	EPA 8015I	D - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2348083-BLK1)							Prepared: 1	1/30/23 A	nalyzed: 12/02/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	48.6		50.0		97.2	50-200			
LCS (2348083-BS1)							Prepared: 1	1/30/23 A	nalyzed: 12/02/23
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
urrogate: n-Nonane	47.2		50.0		94.4	50-200			
Matrix Spike (2348083-MS1)				Source:	E311227-0	03	Prepared: 1	1/30/23 A	nalyzed: 12/02/23
Diesel Range Organics (C10-C28)	281	25.0	250	ND	112	38-132			
urrogate: n-Nonane	51.2		50.0		102	50-200			
Matrix Spike Dup (2348083-MSD1)				Source:	E311227-0	03	Prepared: 1	1/30/23 A	nalyzed: 12/02/23
Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	38-132	0.369	20	
'urrogate: n-Nonane	50.3		50.0		101	50-200			



Chloride

Chloride

Matrix Spike Dup (2349005-MSD1)

### **QC Summary Data**

Devon Energy PO Box 6459		Project Name: Project Number:	: 01	OX Federal 9 058-0007					Reported:
Navajo Dam NM, 87419		Project Manager  Anions		shley Gioveng 600.0/9056					12/5/2023 4:20:32PM Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2349005-BLK1)							Prepared: 1	2/04/23 Ar	nalyzed: 12/04/23
Chloride	ND	20.0							
LCS (2349005-BS1)							Prepared: 1	2/04/23 Ar	nalyzed: 12/04/23
Chloride	244	20.0	250		97.6	90-110			
Matrix Spike (2349005-MS1)				Source:	E312001-	02	Prepared: 1	2/04/23 Ar	nalyzed: 12/04/23

250

250

200

200

ND

ND

94.8

93.5

Source: E312001-02

80-120

80-120

1.40

Prepared: 12/04/23 Analyzed: 12/04/23

20

237

234

#### 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**

ſ	Devon Energy	Project Name:	RDX Federal 9 #005	
١	PO Box 6459	Project Number:	01058-0007	Reported:
١	Navajo Dam NM, 87419	Project Manager:	Ashley Giovengo	12/05/23 16:20

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



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Client: Devon Energy				Bill To			Lab Use Only				TAT				EPA Program				
Project: RDX Federal 9 #005					Attention: Jim Raley		Lab	Lab WO# J		Job Number				3D	Standard	CWA	SDWA		
Project Manager: Ashley Giovengo Addre			Address: 5315 Buena Vista Dr		E	311	20	7	Olc	158-	-000			100	×				
Address	: 3122 Natio	nal Parks	Hwy		City, State, Zip: Carlsbad NM, 882	220				-11	Analy	sis and	Metho	d			70		RCRA
City, Sta	te, Zip: Carls	bad NM,	88220		Phone: (575)689-7597			by			-						le e		
Phone:	575-988-005	5			Email: jim.raley@dvn.com			ORO										State	
Email: a	agiovengo@e	nsolum.c	com					30/0	-	_	1	0.0		ΣN		_	NM CO	UT AZ	TX
Report o	due by:							JQ/C	8021	8260	5010	300				X	×		1-0
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number		TPH GRO/DRO/ORO by 8015	втех by	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	
10:01	11/22/2023	Soil	1		FS04 - 0.5'									х					
10:03	11/22/2023	Soil	1		FS05 - 0.5'	2								х					
10:24	11/22/2023	Soil	1		FS06 - 0.5'	3								х					
Addition	al Instruction	ns: Plea	ase CC: C	nurton@enso	lum.com, agiovengo@ensolum.com, ji	m.ralev@dd	Vn. co	om ch	nami	Iton	@ens	olum	com e	haft/	@ens	olum	Lcom - kent d	on ice	
I, (field sam	npler), attest to the	e validity an	d authentic		l am aware that tampering with or intentionally mislat						Sample	s requirir	ng thermal (	preserva avg ten	ation mu	ust be re e 0 but	eceived on ice the day less than 6 °C on sub	they are samp	oled or
4.4	ned by: (Signatured by: (Signa	114	Date	Time	700 Mille Cay	Date U-17	-17	Time	23		Rece	eived o	on ice:	4	D/ N	se On	nly		
Muc		ux	ll.	27-23 1	680 Andrew Muses	Date	27.2	3 1'	700	24	<u>T1</u>			<u>T2</u>	_		<u>T3</u>	-	
Andre	w J	10800	11	.27.23 2	245 Amontano	W 128	123	17	:30				°c_4						
	trix: S - Soil, Sd - S					Containe													
					unless other arrangements are made. Hazardou pratory with this COC. The liability of the laborat									lient e	xpens	e. Th	e report for the	analysis of	the above



Printed: 11/28/2023 9:43:18AM

### **Envirotech Analytical Laboratory**

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	Date Received:	11/28/23 0	7:30		Work Order ID:	E311207
Phone:	(505)324-5600	Date Logged In:	11/27/23 14	4:55		Logged In By:	Jordan Montano
Email:		Due Date:	12/05/23 1	7:00 (5 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location man	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	Courrier		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.		Yes			Commen	ts/Resolution
	Curn Around Time (TAT)  are COC indicate standard TAT, or Expedited TAT?		Yes		Sampled	by not provide	ed on COC per
Sample C	<u>-</u>				client.		
	sample cooler received?		Yes				
	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
	, were custody/security seals intact?		NA				
12. Was th	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
Sample (	Container						
14. Are a	queous VOC samples present?		No				
15. Are V	OC 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 n	on-VOC samples collected in the correct containers'	?	Yes				
19. Is the	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lal	<u>oel</u>						
	field sample labels filled out with the minimum info	ormation:					
	ample ID? eate/Time Collected?		Yes				
	ollectors name?		Yes No				
	Preservation_		140				
	the COC or field labels indicate the samples were pr	reserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborato	rv?	No				
	subcontract laboratory specified by the client and in			Subcontract Lab	o: NA		
	struction						
CHCHT	isti uctivii						
							0

Date



# **APPENDIX F**

**Email Correspondence** 

From: Hamlet, Robert, EMNRD

To: Ashley Giovengo

Cc: Cole Burton; Ethan Haft; Chad Hamilton; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson,

**EMNRD** 

Subject: (Extension Approval) - WPX Energy Permian LLC - RDX Federal 9 #005 - Incident Number nAPP2320854077

Date: Thursday, October 12, 2023 9:32:34 AM

Attachments: <u>image006.png</u>

image007.png image008.png image009.png

Some people who received this message don't often get email from robert.hamlet@emnrd.nm.gov. <u>Learn why this</u> is important

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

RE: Incident #NAPP2320854077

#### Ashley,

Your request for an extension to **December 14th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us

http://www.emnrd.state.nm.us/OCD/



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Wednesday, October 11, 2023 11:39 AM

**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov> **Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] WPX Energy Permian LLC - Extension Request - RDX Federal 9 #005 -

Incident Number nAPP2320854077

**From:** Ashley Giovengo <a href="mailto:agiovengo@ensolum.com">agiovengo@ensolum.com</a>>

Sent: Wednesday, October 11, 2023 11:15 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Cole Burton < cburton@ensolum.com >; Ethan Haft < ehaft@ensolum.com >; Chad Hamilton

#### <chamilton@ensolum.com>

**Subject:** [EXTERNAL] WPX Energy Permian LLC - Extension Request - RDX Federal 9 #005 - Incident Number nAPP2320854077

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

All,

WPX Energy Permian, LLC (WPX) is requesting an extension of the current deadline of October 15, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the RDX Federal 9 #005 site (Incident Number nAPP2320854077). The release at the RDX Federal 9 #005 occurred on July 17, 2023, and as a result, 16 barrels (bbls) of produced water were released inside lined secondary containment. All 16 bbls of produced water were recovered, however a small area outside of the secondary containment was lightly misted. A Liner Integrity Inspection was completed on July 26, 2023, and the liner was determined to be insufficient. One hole was identified in the containment liner near the release area and would require additional site assessment and delineation sampling activities. On August 09, 2023, vertical delineation beneath the hole in the containment liner was completed to a depth of 3 feet below ground surface (bgs) via hand auger. Laboratory analytical results for delineation borehole samples indicated that the concentration of Total Petroleum Hydrocarbons (TPH) exceeded the strictest Closure Criteria per NMOCD Table 1 at 3 feet bgs. A surface scrape of the misted area on-pad was completed with a backhoe and final confirmation samples were also collected on August 09, 2023. In order to return to the site and complete vertical delineation to the strictest Closure Criteria, to review laboratory analytical data, and to submit a remediation work plan or closure report, WPX hereby requests a 60-day extension of the aforementioned deadline to December 14, 2023.

Thanks,



From: <u>Cole Burton</u>

To: Wells, Shelly, EMNRD

Subject: RE: [EXTERNAL] 48-hour Confirmation Sampling Notification Email-RDX Federal 9 #005-napp2320854077

**Date:** Thursday, November 16, 2023 11:26:00 AM

Attachments: image001.png

image002.png image003.png image004.png

My apologies I meant Wednesday November 22, 2023



#### **Cole Burton** Project Manager 575-706-5056

Ensolum, LLC

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

**Sent:** Thursday, November 16, 2023 11:02 AM **To:** Cole Burton <a href="mailto:coburton@ensolum.com">coburton@ensolum.com</a>

Subject: RE: [EXTERNAL] 48-hour Confirmation Sampling Notification Email-RDX Federal 9 #005-

napp2320854077

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

Hi Cole,

Do you mean Monday, November 20?

Shelly Wells \* Environmental Specialist-Advanced

Environmental Bureau

**EMNRD-Oil Conservation Division** 

1220 S. St. Francis Drive | Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/

**From:** Cole Burton < <u>cburton@ensolum.com</u>>

Sent: Thursday, November 16, 2023 10:39 AM

**To:** Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

**Cc:** Ashley Giovengo <a href="mailto:agiovengo@ensolum.com">; Ethan Haft < ehaft@ensolum.com</hr>

Hamilton <<u>chamilton@ensolum.com</u>>; Raley, Jim <<u>Jim.Raley@dvn.com</u>>

Subject: [EXTERNAL] 48-hour Confirmation Sampling Notification Email-RDX Federal 9 #005-

napp2320854077

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

### links or opening attachments.

Hello,

We intend to collect confirmation samples at Devon Energy Company's, RDX Federal 9 #005 site (Incident Number

napp2320854077) on Monday, November 22, 2023, at 09:00 am.

Please let us know if you plan to be onsite to oversee the sampling.

Thanks,



From: Wells, Shelly, EMNRD

To: <u>Cole Burton</u>

Cc: <u>Bratcher, Michael, EMNRD</u>; <u>Hamlet, Robert, EMNRD</u>

Subject: RE: [EXTERNAL] 48-hour Confirmation Sampling Notification Email-RDX Federal 9 #005-napp2320854077

**Date:** Thursday, November 16, 2023 11:33:10 AM

Attachments: image001.png

image002.png image003.png image004.png

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

Hi Cole,

No worries. The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

# Shelly

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

From: Cole Burton <cburton@ensolum.com>
Sent: Thursday, November 16, 2023 11:27 AM

To: Wells, Shelly, EMNRD < Shelly. Wells@emnrd.nm.gov>

Subject: RE: [EXTERNAL] 48-hour Confirmation Sampling Notification Email-RDX Federal 9 #005-

napp2320854077

My apologies I meant Wednesday November 22, 2023



From: Wells, Shelly, EMNRD < Shelly. Wells@emnrd.nm.gov>

**Sent:** Thursday, November 16, 2023 11:02 AM **To:** Cole Burton <a href="mailto:coburton@ensolum.com">coburton@ensolum.com</a>

Subject: RE: [EXTERNAL] 48-hour Confirmation Sampling Notification Email-RDX Federal 9 #005-

napp2320854077

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

Hi Cole,

Do you mean Monday, November 20?

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

From: Cole Burton < cburton@ensolum.com > Sent: Thursday, November 16, 2023 10:39 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

**Cc:** Ashley Giovengo <a giovengo@ensolum.com>; Ethan Haft <e haft@ensolum.com>; Chad Hamilton <a href="mailton@ensolum.com">chamilton@ensolum.com</a>>; Raley, Jim <a href="mailton@ensolum.com">Jim.Raley@dvn.com</a>>

**Subject:** [EXTERNAL] 48-hour Confirmation Sampling Notification Email-RDX Federal 9 #005-napp2320854077

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

Hello,

We intend to collect confirmation samples at Devon Energy Company's, RDX Federal 9 #005 site (Incident Number

napp2320854077) on Monday, November 22, 2023, at 09:00 am.

Please let us know if you plan to be onsite to oversee the sampling.

Thanks,



Attachments:

From: Wells, Shelly, EMNRD

To: Cole Burton

Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD

Subject: RE: [EXTERNAL] 48-Hour Liner Inspection - RDX Federal 9 #005

Date: Monday, July 24, 2023 10:45:59 AM image001.png

> image002.png image003.png image004.png

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

Good morning Cole,

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

Thank you,

Shelly

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

From: Cole Burton <cburton@ensolum.com>

Sent: Monday, July 24, 2023 8:49 AM

**To:** Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

**Cc:** Ashley Giovengo <agiovengo@ensolum.com>; Raley, Jim <Jim.Raley@dvn.com>

**Subject:** [EXTERNAL] 48-Hour Liner Inspection - RDX Federal 9 #005

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

Hello,

We intend to perform a liner integrity inspection at RDX Federal 9 #005 site on Wednesday, July 26, 2023 at 9:30am MST.

Please let us know if you plan to be onsite to oversee the inspection.

Thanks,



<u>District I</u> 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

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

Action 294778

#### **QUESTIONS**

Operator:	OGRID:		
WPX Energy Permian, LLC	246289		
Devon Energy - Regulatory	Action Number:		
Oklahoma City, OK 73102	294778		
	Action Type:		
	[C-141] Deferral Request C-141 (C-141-v-Deferral)		

#### QUESTIONS

Prerequisites			
Incident ID (n#)	nAPP2320854077		
Incident Name	NAPP2320854077 RDX 9-5H @ 30-015-41630		
Incident Type	Produced Water Release		
Incident Status	Deferral Request Received		
Incident Well	[30-015-41630] RDX FEDERAL 9 #005		

Location of Release Source					
Please answer all the questions in this group.					
Site Name	RDX 9-5H				
Date Release Discovered	07/17/2023				
Surface Owner	Federal				

Incident Details				
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			

Nature and Volume of Release					
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   Production Tank   Produced Water   Released: 16 BBL   Recovered: 16 BBL   Lost: 0 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.				

District I
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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** 

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

QUESTIONS, Page 2

Action 294778

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	11 3, 1411 37 333
QUESTI	ONS (continued)
Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
QUESTIONS	[0-141] Deterral Request 0-141 (0-141-V-Deterral)
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.	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 s	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.
	I ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
Lhereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional

Email: jim.raley@dvn.com Date: 12/14/2023

I hereby agree and sign off to the above statement

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

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

QUESTIONS, Page 3

Action 294778

**QUESTIONS** (continued)

Operator:	OGRID:				
WPX Energy Permian, LLC	246289				
Devon Energy - Regulatory	Action Number:				
Oklahoma City, OK 73102	294778				
	Action Type:				
	[C-141] Deferral Request C-141 (C-141-v-Deferral)				

#### QUESTIONS

Site Characterization					
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.					
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)				
What method was used to determine the depth to ground water	NM OSE iWaters Database Search				
Did this release impact groundwater or surface water	No				
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:				
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)				
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)				
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)				
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	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	Between ½ and 1 (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 prov	vided 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 contain	mination 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	n, in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	2780
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	21300
GRO+DRO (EPA SW-846 Method 8015M)	14400
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 co which includes the anticipated timelines for beginning and completing the remediation.	ompleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
On what estimated date will the remediation commence	08/09/2023
On what date will (or did) the final sampling or liner inspection occur	11/22/2023
On what date will (or was) the remediation complete(d)	08/09/2023
What is the estimated surface area (in square feet) that will be reclaimed	3819
What is the estimated volume (in cubic yards) that will be reclaimed	424
What is the estimated surface area (in square feet) that will be remediated	462
What is the estimated volume (in cubic yards) that will be remediated	51
These estimated dates and measurements are recognized to be the best guess or calculati	ion 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 adjus	sted 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.

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **District II** 

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 4

Action 294778

**QUESTIONS** (continued)

Operator:	OGRID:		
WPX Energy Permian, LLC	246289		
Devon Energy - Regulatory	Action Number:		
Oklahoma City, OK 73102	294778		
	Action Type:		
	[C-141] Deferral Request C-141 (C-141-v-Deferral)		

#### QUESTIONS

Remediation Plan (continued)			
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:			
(Select all answers below that apply.)			
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes		
Which OCD approved facility will be used for off-site disposal	Not answered.		
OR which OCD approved well (API) will be used for off-site disposal	Not answered.		
<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 Red Bluff		
OR is the off-site disposal site, to be used, an NMED facility	Not answered.		
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.		
(In Situ) Soil Vapor Extraction	Not answered.		
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.		
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.		
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.		
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.		
OTHER (Non-listed remedial process)	Not answered.		

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement

Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 12/14/2023

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.

Released to Imaging: 3/22/2024 9:01:57 AM

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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

**QUESTIONS** (continued)

QUESTIONS, Page 5

Action 294778

Operator.	OGRID.
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory Oklahoma City, OK 73102	Action Number:
Oklahoma City, OK 73102	294778
	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 o	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	Liner removal would require deconstruction of facility.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	462
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	51
	initially under or around production equipment such as production tanks, wellheads and pipelines where In may be deferred with division written approval until the equipment is removed during other operations, or whe
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	30-015-41630 RDX FEDERAL 9 #005
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 exhibit includes the anticipated timelines for beginning and completing the remediation.	fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface it does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com

Date: 12/14/2023

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

QUESTIONS, Page 6

Action 294778

**QUESTIONS** (continued)

Operator: WPX Energy Permian, LLC	OGRID: 246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	294778 Action Type:
	[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 re	mediation steps have been completed.
Requesting a remediation closure approval with this submission	No

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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

CONDITIONS

Action 294778

#### **CONDITIONS**

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	294778
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

#### CONDITIONS

Created By	Condition	Condition Date
rhamlet	WPX's deferral requests final remediation for (Incident Number NAPP2320854077) until final reclamation of the well pad or major construction, whichever comes first. Ensolum and WPX do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The area requested for deferral is in the area immediately beneath the lined containment and active production Equipment on the caliche well pad, where remediation would require a major facility deconstruction (Figure 4). The area has been delineated and documented in the report. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	3/22/2024