

June 20, 2024

New Mexico Energy Mineral and Natural Resources Department New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Report Request Addendum

RDX 17 Federal Com #020H

Incident Numbers NAB1422341439 & NAB1706053151

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of WPX Energy Permian, LLC (WPX), has prepared this *Closure Report Request Addendum* (CRRA) to document assessment, excavation, and soil sampling activities at the RDX Federal Com #020H (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following releases of fluids onto the well pad. Based on field observations, field screening activities, and soil sample laboratory analytical results, WPX is submitting this *CRRA*, describing additional Site assessment and confirmation sampling activities that have occurred and requesting closure for Incident Numbers NAB1422341439 & NAB1706053151.

On November 30, 2023, Ensolum submitted a Closure Report Request (CRR) to the New Mexico Oil Conservation Division (NMOCD); however, the CRR was denied for the following reasons:

SS02 not fully delineated. All areas not reasonably needed for production or subsequent drilling operations must be reclaimed to contain a minimum of four feet of non- waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene.

This CRRA addresses NMOCD's concerns regarding the delineation sample SS02 required to vertically define the release extent on-pad. This Site is still an active well pad and therefore excavation of the waste-containing soil will be completed during reclamation of the Site.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in in Unit A, Section 17, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.0489464°, -103.8974533°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On July 28, 2014, an isolation valve (check valve) on the backup blender was thought to have been leaking. This equipment failure allowed frac fluid to backflow from the active blender to the backup blender and overflow into the secondary containment and beyond. Approximately 700 barrels (bbls) was released and 200 barrels (bbls) of frac fluid was recovered from the secondary containment and an additional 500 bbls was recovered from the well pad itself at the conclusion of pumping operations and

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com



demobilization of frac equipment. RKI Exploration & Production, LLC (RKI), the previous owner, reported the release to the NMOCD and filed a Corrective Action Form C-141 (Form C-141) on August 05, 2014. Subsequently, NMOCD assigned Incident Number NAB1422341439 to the release.

On February 10, 2017, a hose on a discharge pump developed a hole due to constant vibration. This failure resulted in the release of approximately 400 bbls of produced water onto the caliche pad; 100 bbls was recovered with a vacuum truck. Some of the spilled fluids migrated to an area off-pad and impacted an area roughly 100 feet by 100 feet in size; the off-pad spill area is located on the north side of the caliche pad. The Incident Number associated with this release is NAB1706053151.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of Form C-141 (see Appendix A), Site Assessment/Characterization. Potential Site receptors are identified in Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-4068-POD1, with a depth to water measurement of greater than 125 feet below ground surface (bgs). The well is located 0.24 miles southeast of the Site and the most recent documented water level measurement was collected on May 12, 2017, indicating groundwater was not present in the boring and that groundwater is present at depths greater than 125 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 797 feet north 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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES

Beginning August 22, 2022, through August 23, 2022, Ensolum personnel arrived onsite to assess the vertical extent of waste-containing soil in both subject matter releases. A pothole (PH01) was advanced via mechanical equipment in the vicinity of surface sample SS02 which was collected on September 24, 2018, and associated with Incident Number NAB1422341439. Pothole (Ph01) was advanced to a depth of 1- foot bgs; soil samples were collected at 0.5 feet and 1-foot bgs and submitted for laboratory



analysis. Eleven potholes (PH01 through PH11) were advanced via backhoe in the release area associated with Incident Number NAB1706053151 to a terminal depth of 1-foot bgs in potholes (PH01 through PH09 and PH11); Pothole PH10 was collected at a terminal depth of 2 feet bgs. The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations from the borehole were logged on a lithologic/soil sampling log, which is included in Appendix C. The release extent and preliminary soil sample location were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix D.

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 Eurofins, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil sample SS02 collected on September 24, 2018, indicated concentrations of chloride exceeded the strictest Site Closure Criteria at a depth of 1-foot bgs indicating further vertical delineation would be required. Laboratory analytical results from pothole (PH01) indicated COC concentations, associated with Incident Number NAB1422341439, were all in compliance with the strictest Closure Criteria per NMOCD Table I at ground surface and 1-foot bgs. Laboratory analytical results for soil samples collected from potholes associated with Incident Number NAB1706053151 (PH01 through PH11) indicated all COCs were in compliance with the Site Closure Criteria and successfully defined the lateral and vertical extents of the release.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

Beginning on March 12, 2024, through March 13, 2024, Ensolum personnel returned to the Site to complete additional delineation sampling activities in sample location SS02, which is associated with Incident Number NAB1422341439. Sample location SS02 was advanced via backhoe to a terminal depth of 10 feet bgs in order to assess the vertical extent of the spill area in accordance with the strictest Closure Criteria per NMOCD Table I. Discrete delineation soil samples were collected from the pothole (SS02) at depths ranging from 3 feet to 10 feet bgs.

In addition to the delineation sampling activities, Ensolum personnel were onsite to oversee the excavation of confirmation sample areas FS01 and FS02, associated with Incident Number NAB1706053151. It was determined that sample areas FS01 and FS02 were located off-pad and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the confirmation sample areas. Confirmation sample areas FS01 and FS02 were advanced via backhoe to a depth of 4 feet bgs. Approximately 30 cubic yards of soil from removed from the excavation area and transported to R360 in Hobbs, New Mexico for disposal. The excavation area will be backfilled and recontoured to match preexisting conditions and reseeded with the appropriate BLM seed mixture.

Ensolum personnel collected two, 5-point composite soil samples representing up to 200 square feet from the floor of the excavation (FS01@4' and FS02@4'). The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation extent and excavation soil sample locations are presented on Figure 4.



The soil samples collected from pothole SS02 and confirmation floor samples FS01@4' and FS02@4' were field screened for TPH utilizing a PetroFLAG® Hydrocarbon Test Kit and chloride with Hach® chloride QuanTab® test strips. Field screening results and observations from the borehole were logged on a lithologic/soil sampling log, which is included in Appendix C. The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following COCs: BTEX; TPH- GRO, TPH-DRO, and TPH-ORO; and chloride following Standard Method SM4500.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for vertical delineation soil samples collected from sample location SS02 were in compliance with the strictest Closure Criteria at 10 feet bgs and were all in compliance with the Site Closure Criteria from ground surface to 10 feet bgs. Laboratory analytical results for excavation floor samples FS01@4' and FS02@4' were both in compliance with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results are summarized in Tables 1 and 2 and laboratory analytical reports are included in Appendix E.

CLOSURE REQUEST

On behalf of WPX, Ensolum herby requests closure for the releases associated with Incident Numbers NAB1422341439 and NAB1706053151 based on the findings and conclusions listed below:

- Depth to water has been reasonably determined for the Site based on depth to groundwater data from NMOSE well C-4068 POD1, which is located 0.24 miles from the Site and indicates groundwater is greater than 125 feet bgs.
- Vertical delineation sampling in the vicinity of soil sample SS02 (Incident Number NAB1422341439) was achieved at a depth of 10 feet bgs. The release area is still on an active oil and gas well pad and COC concentrations are all below the Site Closure Criteria for samples SS01 through SS04 and for pothole PH01.
- The off-pad spill area associated with Incident Number NAB1706053151 was excavated in accordance with the reclamation requirement and all confirmation soil samples met the requirements set forth in 19.15.29.13 NMAC.

Based on the remedial actions taken at the Site, WPX believes they have been protective of human health, the environment, and groundwater.

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

Sincerely, **Ensolum, LLC**

Ashley Giovengo Senior Scientist Daniel R. Moir, PG (licensed in WY & TX)

Senior Managing Geologist

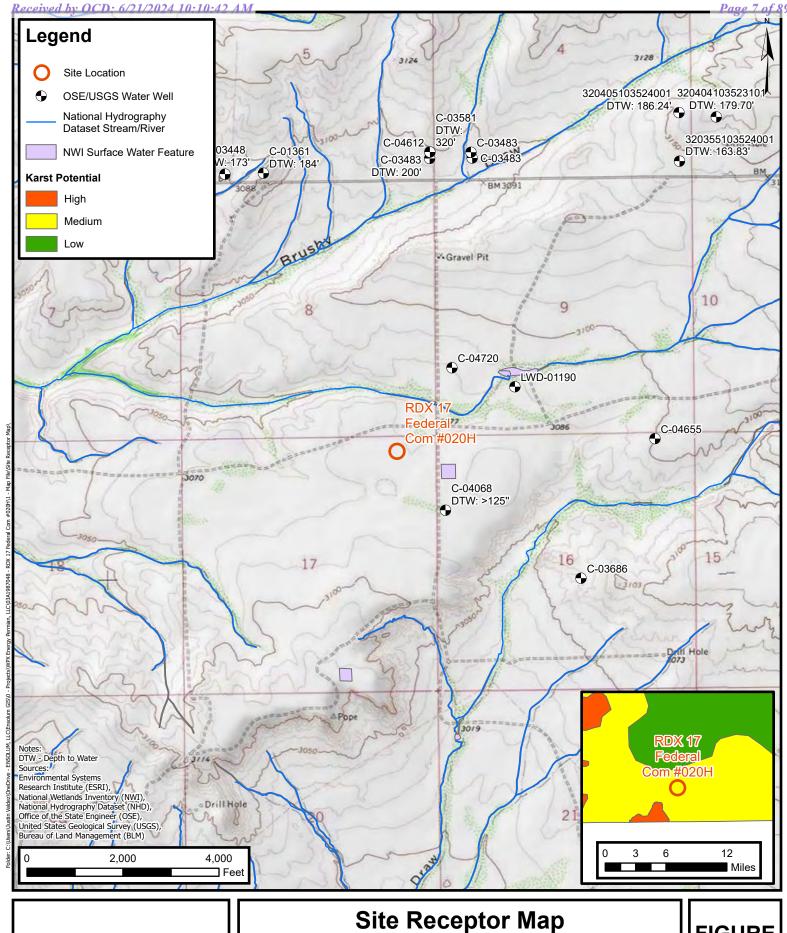


cc: Jim Raley, WPX Energy Permian, LLC Bureau of Land Management

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations (NAB1422341439)
Figure 3	Delineation Soil Sample Locations (NAB1706053151)
Figure 4	Confirmation Soil Sample Locations (NAB1706053151)
Table 1	Soil Sample Analytical Results (NAB1422341439)
Table 2	Soil Sample Analytical Results (NAB1706053151)
Appendix A	Form C-141
Appendix B	Referenced Well Records
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Photographic Log
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F	NMOCD Notifications



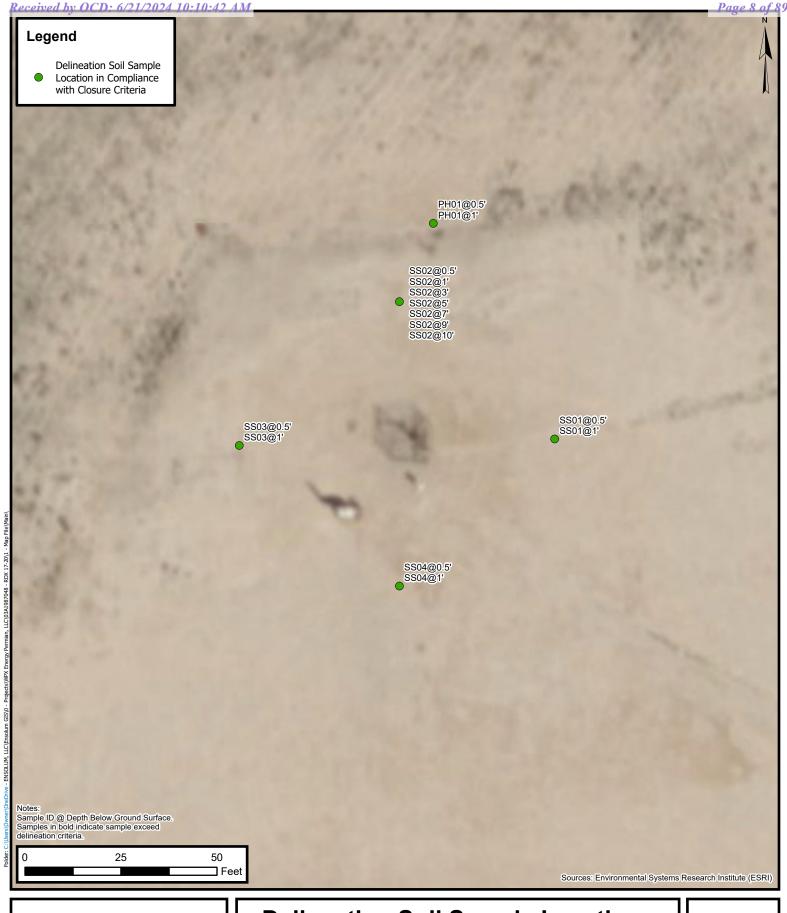




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Site Receptor Map

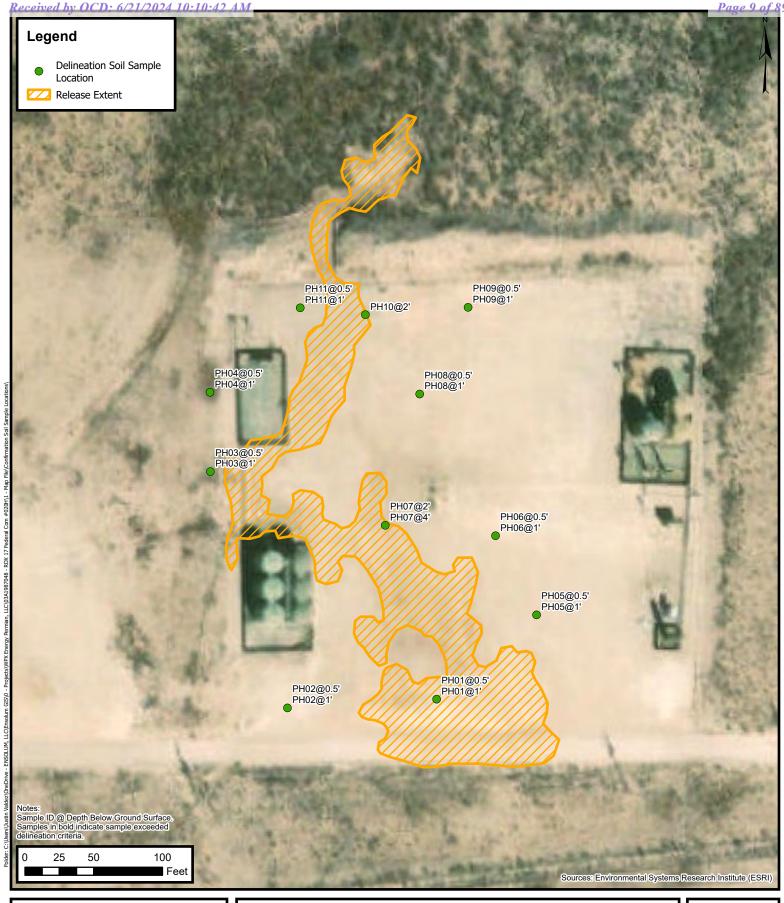
WPX Energy Permian, LLC RDX 17 Federal Com #020H Incident Numbers: NAB1422341439 & NAB11706053151 A-17-26S-30E Eddy County, New Mexico





Delineation Soil Sample Locations WPX Energy Permian, LLC

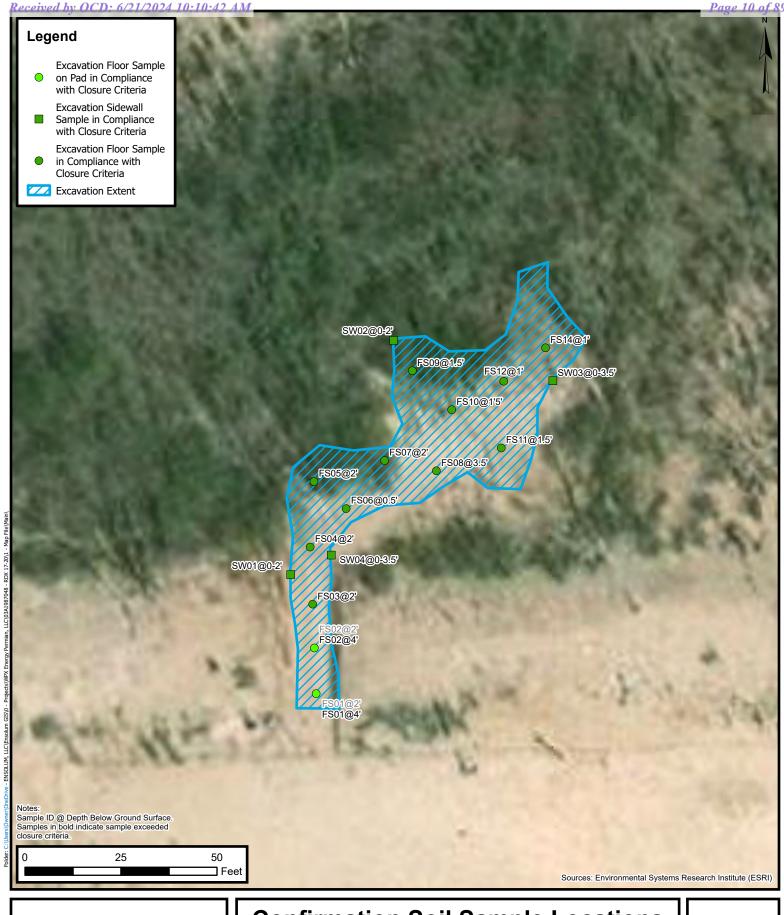
RDX 17 Federal Com #020H Incident Number: NAB1422341439 A-17-26S-30E Eddy County, New Mexico





Delineation Soil Sample Locations

WPX Energy Permian, LLC RDX 17 Federal Com #020H Incident Number: NAB11706053151 A-17-26S-30E Eddy County, New Mexico





Confirmation Soil Sample Locations

WPX Energy Permian, LLC RDX 17 Federal Com #020H Incident Number: NAB11706053151 A-17-26S-30E Eddy County, New Mexico



TABLES



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

WXP Energy Permian, LLC RDX 17 Federal Com #020H Incident Number: NAB1422341439 Eddy County, New Mexico Ensolum Project No. 03A1987048

	Elisolulii Flojett No. 03A1301040									
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	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	1,000	2,500	20,000
				Deline	eation Soil Sample A	nalytical Results				
SS01	09/24/2018	0.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	181
SS01	09/24/2018	1	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	68.4
SS02	09/24/2018	0.5	<0.00201	<0.00201	<14.9	<14.9	<14.9	<14.9	<14.9	459
SS02	09/24/2018	1	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	1,140
SS02	03/12/2024	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	2,350
SS02	03/12/2024	5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,460
SS02	03/12/2024	7	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	616
SS02	03/12/2024	9	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	644
SS02	03/12/2024	10	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	385
SS03	09/24/2018	0.5	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	70.1
SS03	09/24/2018	1	<0.00202	<0.00202	<14.9	<14.9	<14.9	<14.9	<14.9	119
SS04	09/24/2018	0.5	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	119
SS04	09/24/2018	1	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	84.4
PH01	08/22/2022	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	97.1
PH01	08/22/2022	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	72.5

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

 ${\it Concentrations in bold exceed the NMOCD Table I Closure Criteria or reclamation}$

standard where applicable.

Ensolum 1 of 1



TABLE 2 **SOIL SAMPLE ANALYTICAL RESULTS**

WXP Energy Permian, LLC RDX 17 Federal Com #020H Incident Number: NAB1706053151 **Eddy County, New Mexico**

	Ensolum Project No. 03A1987048									
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	losure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Deline	eation Soil Sample A	nalytical Results				
PH01	08/22/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	29.5
PH01	08/22/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	69.1
PH02	08/22/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	12.5
PH02	08/22/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	16.4
PH03	08/22/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	42.4
PH03	08/22/2022	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	113
PH04	08/22/2022	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	22.3
PH04	08/22/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	29.0
PH05	08/22/2022	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	97.1
PH05	08/22/2022	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	72.5
PH06	08/22/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	204
PH06	08/22/2022	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	101
PH07	08/22/2022	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	3,200
PH07	08/22/2022	4	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	657
PH08	08/22/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	48.9
PH08	08/22/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	67.7
PH09	08/23/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	121
PH09	08/23/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	74.8
PH10	08/23/2022	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	130
PH11	08/22/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	31.9
PH11	08/22/2022	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	80.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in bold exceed the NMOCD Table I Closure Criteria or reclamation

standard where applicable.

Ensolum 1 of 2



TABLE 2

SOIL SAMPLE ANALYTICAL RESULTS

WXP Energy Permian, LLC RDX 17 Federal Com #020H Incident Number: NAB1706053151 Eddy County, New Mexico Ensolum Project No. 03A1987048

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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	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	1,000	2,500	20,000
				Exca	ation Soil Sample A	nalytical Results				
FS01	09/27/2022	2	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	3,060
FS01	3/13/2024	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,070
FS02	09/27/2022	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	3,450
FS02	3/13/2024	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,460
FS03	09/27/2022	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	370
FS04	09/27/2022	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	31.4
FS05	09/27/2022	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	25.7
FS06	09/27/2022	0.5	<0.00201	<0.00402	<50.0	55.1	<50.0	<50.0	55.1	62.2
FS07	09/27/2022	2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	29.2
FS08	09/27/2022	3.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	24.5
FS09	09/27/2022	1.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	27.0
FS10	09/27/2022	1.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	25.6
FS11	09/27/2022	1.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	30.9
FS12	09/27/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	28.6
FS13	09/27/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	25.2
FS14	09/27/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	21.6
SW01	09/27/2022	0 - 2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	24.5
SW02	09/27/2022	0 - 2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	34.2
SW03	09/27/2022	0 - 3.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	39.7
SW04	09/27/2022	0 - 3.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	237

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text represents samples that have been excavated

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

Ensolum 2 of 2



APPENDIX A

Form C-141

<u>District I</u> 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 AUG 0 5 2014

Form C-141 Revised August 8, 2011

NMOCD ARTESCHARIE With 19.15.29 NMAC.

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

Release Notification and Corrective Action													
NHB142	14B142 22L1439					OPERATOR					Final Report		
Name of Co		KKÍ E&P	N/O OI	2410284		Contact: Zack Laird – Sr. EHS Manager Telephone No.: 405-987-2213 or 405-742-2696							
Facility Nan		e. Ste. 900, (. 73102			e: Oil Well Pac		403-742-26	90			
			2011				C. On Won I ac	-	1.5737	20.015.4100			
Surface Ow	Surface Owner: Federal Mineral Owner: Federal API No.: 30-015-41381							1					
						OF RE		,					
Unit Letter A	Section 17	Township 26S	Range 30E	Feet from the 330		South Line North	Feet from the 790	East/	West Line East	County Ed	ldy		
			Latitu	de 32°02′56.2		Ü	e 103°53′50.	.70" \	W				
					JRE	OF REL			T 5	1 (00.7			
		luid (fresh w Vendor Bac		rious chems)			Release: 700Bbls			tecovered: 698 I Hour of Discove			
			K up Die			07/28/14 -	1800hrs (estima		07/30/14		· · · · · · · · · · · · · · · · · · ·		
Was Immedia	nte Notice (Yes 🗵	No Not Rec	uired -	If YES, To N/A	Whom?						
By Whom? Was a Water		-L - 40				Date and F	lour Jume Impacting t	tha Wa	taraauraa	· · · · · · · · · · · · · · · · · · ·			
was a water	course Keac		Yes 🗵	No No		N/A	nume impacting t	ше та	tercourse,				
If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken.* Back-up blender isolation valve (check valve) is thought to have been leaking which allowed frac fluid to backflow from active blender to the back-up and overflow. The back-up blender was isolated and removed from service. The Frac Vendor, Weatherford International, is currently investigating to determine specific causation and corrective action(s). The blender will not be placed back into service on an RKI job until adequately repaired. Describe Area Affected and Cleanup Action Taken.* Approximately 200 Bbls of released frac fluid was recovered from secondary containment while pumping and an additional nearly 500 Bbls was recovered from the well pad itself at the conclusion of pumping operations and demobilization of frac equipment.													
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION													
C:	/			< /				10	11 1	DIVIDION			
Signature:	-	er C				Ammont 4 :	Signed By			MULES-	-		
Printed Name	Zack Lair	rd				Approved by	Environmental S	peciali	ist;				
Title: Sr. EH	S Manager				_	Approval Da	te: 8 11 14		Expiration	Date: NA			
		@RKIXP.com	-				of Approval: Ren Rule & Guideline:		on	Attached	 		
Date: 08/05	Date: 08/05/14 Phone: 405-987-2213						SUBMIT REMEDIATION BROPOSAL NO 120 1						

LATER THAN:

Received by OCD: 6/21/2024 10:10:42 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

ate of New Mexico Incident ID nAB1422

	Page 17 of 89
Incident ID	nAB1422341439
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.				
19.15.29.7(A) NMAC?	Volume exceeded 25 bons.				
⊠ Yes □ No					
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? OCD on 07/29/2016 by Karolina Blaney via email.				
	Initial Response				
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury				
The source of the rele	ease has been stopped.				
The impacted area ha	as been secured to protect human health and the environment.				
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.				
All free liquids and re	ecoverable materials have been removed and managed appropriately.				
If all the actions described	d above have <u>not</u> been undertaken, explain why:				
has begun, please attach	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation 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.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name: Jim Raley	Title: EHS Professional				
Signature:	Date: <u>05/10/2023</u>				
email: jim.raley@dvn.con	Telephone: <u>575-689-7597</u>				
OCD Only					
Received by:	Date:				

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Incident ID	nAB1422341439	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>125</u> (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?					
Are the lateral extents of the release within a 100-year floodplain?					
Did the release impact areas not on an exploration, development, production, or storage site?					
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.					
Characterization Report Checklist: Each of the following items must be included in the report.					
 \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well \infty Field data 	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 Boring or excavation logs					
Photographs including date and GIS information					
☐ Topographic/Aerial maps					
☐ Laboratory data including chain of custody					

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

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Incident ID	nAB1422341439
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.				
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 				
<u>Deferral Requests Only</u> : Each of the following items must be con	firmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility			
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name:	_ Title:			
Signature:	Date:			
email:	Telephone:			
OCD Only				
Received by:	Date:			
☐ Approved ☐ Approved with Attached Conditions of	Approval			
Signature:	Date:			

Received by OCD: 6/21/2024 10:10:42 AM State of New Mexico
Page 6 Oil Conservation Division

of New Mexico
Incident ID nAB
District RP

Incident ID nAB1422341439 District RP Facility ID Application ID

Closure

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

Closure Report Attachment Checklist: Each of the following it	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
□ Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and renuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the conaccordance with 19.15.29.13 NMAC including notification to the Oraccordance	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Printed Name: Jim Raley	Title: EHS Professional
Signature:	Date: <u>05/10/2023</u>
email: jim.raley@dvn.com	Telephone: <u>575-689-7597</u>
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

eceived by O	CD: 6/21	/2024 10:10	:42 AM									Page 22 of 85
District I 1625 N. French District II 811 S. First St.,		ΔΩ	CONS	ERVATIONSta	ate of i	New Mex	ico NM O I I Resources A	L CONS RTESIA DI				Form C-141 August 8, 2011
District III 1000 Rio Brazos District IV			EB 27	2017 Oil C		vation Div	ision	FEBu 2 m7	t LOPP y	to appropria	ate Dis	strict Office in 15.29 NMAC.
<u>District IV</u> 1220 S. St. Fran				1220		St. Franc	is Dr.			eordanee w	15.	(3.2) Timite.
			RECEIN			, NM 875		RECEI	VED			
- 00			Rele	ease Notific	cation	and Co	rrective A	ction				
NABIT	0605	3151	T /DIZ	11/1 10	7/1	OPERAT			Initia	al Report		Final Report
Name of Co Address		WPX Energ		124628		Contact Telephone N	Karolina Blar No. 970 589 074		_			
Facility Nar			••			Facility Typ						
Surface Ow	ner: Fede	ral		Mineral C)wner: 1	Federal			API No	. 30- 015-4	1381	
							DACE		11110		1001	
Unit Letter	Section	Township	Range	Feet from the		OF REI	Feet from the	East/Wes	st Line	County		
Α	17	26 S	30E	330		FNL	790	FE	ī	Eddy		
	17	203		. <u> </u>				1	L	Eddy		
			Lä	ntitude: 32.0488 NAT		OF RELI		3 W				
Type of Rele		ced Water and	l Oil			,	Release: 400 Bb	ls		e Recovered		
Source of Re Vapor Recov						Date and Hour of Occurrence Date and Hour of Discovery 2/10/2017 2/10/2017 - 7:00 hrs MT				ery		
Was Immedia						If YES, To Whom?						
			Yes _	No Not Re	equired	<u> </u>				BLM Shelly	/ Tuck	er
By Whom? K				<u></u>			lour: 2/10/2017— plume Impacting					
			Yes 🗵	No		N/A						
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	* N/A		I						
Describe Cau	ise of Probl	em and Reme	dial Action	n Taken.*								
	ter got spille			se on a charge pured with a vacuum								
Describe Are	a Affected	and Cleanup A	Action Tak	ten.*								
The impacted area was mapped with Trimble. With BLM's approval, the impacted area off location will be excavated to 2' below the surface to address high salt concentrations. The excavation activities will start the week of 2/27/17. WPX will submit a Characterization Plan describing delineation activities for salt and hydrocarbon impacts.												
regulations at public health should their o	Il operators or the envi operations h nment. In a	are required to a ronment. The lave failed to a ddition, NMC	o report are acceptance acceptanc	e is true and comp nd/or file certain rece of a C-141 report investigate and retance of a C-141	elease not by the emediate	otifications are e NMOCD m e contaminati	nd perform correct arked as "Final R on that pose a that the operator of	ctive action Report" doe reat to grou responsibil	s for rel s not rel and wate lity for c	eases which ieve the ope r, surface wa ompliance v	may e rator o ater, hu vith an	ndanger f liability ıman health
	Kamlina	Blaneu					OIL CON	<u>SERVA</u>	TION	DIVISIO	N	,
		- 7			1				_	/1 (1.	

Signature: Approved by Environmental Specialist: Printed Name: Karolina Blaney Approval Date: 31111 Title: Environmental Specialist Conditions of Approval: E-mail Address: Karolina.blaney@wpxenergy.com Attached (X Date: 2/24/2017 Phone: 970-589-0743

* Attach Additional Sheets If Necessary

2RP-4132

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State of New Mexico Incident ID

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Incident ID	nAB1706053151	
District RP		
Facility ID		
Application ID		

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
19.15.29.7(A) NMAC?	
⊠ Yes □ No	
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? OCD on 07/29/2016 by Karolina Blaney via email.
	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.
The impacted area ha	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.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
Dom 10 15 20 9 B (4) NIM	AC the responsible party may commence remediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are	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
failed to adequately investig	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
addition, OCD acceptance of and/or regulations.	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 Raley	Title: EHS Professional
Signature:	Date: <u>05/10/2023</u>
email: jim.raley@dvn.cor	Telephone: <u>575-689-7597</u>
OCD Only	
Received by:	Date:

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Incident ID	nAB1706053151	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>125 (ft bgs)</u>					
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?						
Are the lateral extents of the release overlying an unstable area such as karst geology?						
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No					
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No					
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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.						
 \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well in Field data 	lls.					
☐ Data table of soil contaminant concentration data						
 Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release 						
Boring or excavation logs						
Photographs including date and GIS information						
☐ Topographic/Aerial maps						
∑ Laboratory data including chain of custody						

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

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Incident ID	nAB1706053151	
District RP		
Facility ID		
Application ID		

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)	2(C)(4) NMAC
<u>Deferral Requests Only</u> : Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	a, the environment, or groundwater.
I hereby certify that the information given above is true and comple rules and regulations all operators are required to report and/or file of which may endanger public health or the environment. The accepta liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD responsibility for compliance with any other federal, state, or local limits of the environment.	pertain release notifications and perform corrective actions for releases not of a C-141 report by the OCD does not relieve the operator of a and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	_ Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of	Approval
Signature:	Date:

Received by OCD: 6/21/2024 10:10:42 AM Form C-141 State of New Mexico Page 6

Oil Conservation Division

	Page 27 of 8	9
Incident ID	nAB1706053151	
District RP		
Facility ID		
Application ID		

Closure

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

Closure Report Attachment Checklist: Each of the following it	ems must be included in the closure report.					
	1 NMAC					
☐ Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)					
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)					
Description of remediation activities						
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.					
· · · · · · · · · · · · · · · · · · ·						
Signature:	Date: <u>05/10/2023</u>					
email: jim.raley@dvn.com	Telephone: <u>575-689-7597</u>					
OCD Only						
Received by:	Date:					
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.					
Closure Approved by:	Date:					
Printed Name:	Title:					



APPENDIX B

Referenced Well Records





2017 THY 17 27 1: 58

z	OSE POD NU		ELL NUMBER)					OSE FILE NUM	MBER(S)		
CATIO	WELL OWNER NAME(S) RKI Exploration and Production, LLC						PHONE (OPTIONAL)				
WELL LO	well owner mailing address 3500 One Williams Center MD 35,							CITY Tulsa		STATE OK 741	ZIP 72
1. GENERAL AND WELL LOCATION	WELL LOCATION LATITUDE (FROM GPS)			GREES 32	32 2 43.95 _N		* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84				
1. GENE	LONGITUDE 103 53 39.23 W **DATUM REQUIRED: WGS 84										
	LICENSE NU	MBER	NAME OF LICENSED	DRILLER					NAME OF WELL DRI	ILLING COMPANY	
	124	19		Jac	kie D. Atkins				Atkins Eng	ineering Associa	tes, Inc.
	DRILLING \$1 5/11/2		DRILLING ENDED 5/12/2017	DEPTH OF COME	PLETED WELL (F n/a	T) :		LE DEPTH (FT) 125	DEPTH WATER FIRS	ST ENCOUNTERED ne encountered	(FT)
نو د	COMPLETED	WELL IS:	ARTESIAN	V DRY HOLE	SHALLO	W (UNCON	FINED)		STATIC WATER LEV	n/a	D WELL (FT)
TION	prove										
RMA'						R-SPECIFY: hollow stem auger with his rotary			rotary		
Ĭ.	DEPTH		1	CASING MATERIAL AND/OR					CASING	CASING WA	LL SLOT
CASING INFORMATION	FROM	ТО	DIAM (inches)	(include eac	GRADE (include each casing string, and note sections of screen) CASING CONNECTION TYPE			IECTION	INSIDE DIAM. (inches)	THICKNES (inches)	S SIZE
	0	125	±6.625	n/a			n/a		n/a	n/a 🚉	Professional Communication
DRILLING &										() ()	"Name of "
DRII											
.5											
						-+					
		-									
L	DEPTH	(feet bgl)	BORE HOLE		ANNÚLAR SI				AMOUNT (cubic feet)		THOD OF CEMENT
ANNULAR MATERIAL	FROM n/a				GRAVEL PACK SIZE-RANGE BY INTERV			KVAL	n/a		n/a
1A TE	īva .	n/a	n/a			ща			tva		11/4
AR N											
INOL		•							_		
3. AN											
	OSE INTER	NAL USE	(100 (100				· .		WELL RECORD	& LOG (Version	10/29/15)
	NUMBER	<u>(, </u>	4009	- 11 -	POD NE	JMBER		TRN	NUMBER (O	06-1-	GE 1 OF 2
LUC	ATION	- SV	0.0	$\frac{1}{2}$	レンユ						101 4

	DEPTH (feet bgl)					ESTIMA	ATED			
	FROM	то	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	ZONES BEARING?		YIELD WAT BEAR ZONES	FOR ER- ING			
	0	5	5	white caliche small gravel	Y	✓ N					
4. HYDROGEOLOGIC LOG OF WELL	5	20	15	light brown fine sand with small gravel	Y	✓ N	Special Control of the Control of th				
	20	40	20	tan sand, medium gravel, sandstone	Y	√ N					
	40	50	10	white tannish sand/sandstone	Y	✓ N					
	50	90	40	tannish very fine sandstone	Y	✓ N					
	90	110	20	fine reddish tan sandstone	Y	✓ N					
	110	125	15	fine reddish sandstone with small layers of reddish clay	Y	√ N					
					Y	N					
	<u> </u>				Y	N					
	<u> </u>		1		Y	N					
					Y	N N					
OL	_				Y	N					
YDROGE					Y	N					
					Y	N .	27 m Tr				
4. H					Y	N	113	entre la servición de la servi			
					Y	N	1 - 2				
					Y		is the				
						N		77.4			
					Y	N	182 				
					Y	N	1 1900 AT	17 to 1			
					Y	N	* 5	garantang pada darah garantang Kanada			
					. Y	N	<u>C</u> 0				
	METHOD U	SED TO ES	TOTAL ESTIMATED								
	PUMI	P [A	WELL YIEL	LL YIELD (gpm): 0.()					
ISION	WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD										
VISI(MISCELLAI	NEOUS INF	ORMATION:								
ER	MISCELLANEOUS INFORMATION: Log adapted from Souder Miller & Associates oversight. Boring to determine presence/absence of water. Boring advanced with combination of air rotary and hollow stem auger tooling. No water encountered.										
TEST; RIG SUPERV	Boring not converted to well. Boring abandoned see plugging record.										
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\											
ST;											
5. TJ	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:										
	Guadalupe "	Guadalupe "Lupe" Leyba, Shane Eldridge									
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:										
		7/2017		_							
		/	S. he JRE OF DRILLE	R / PRINT SIGNEE NAME		DATE		,			
FOR	FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 10/29/2015)										

POD NUMBER

TRN NUMBER

PAGE 2 OF 2

FILE NUMBER

LOCATION

Tom Blaine, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

606777 C 04068

File Nbr:

Well File Mbr: C 04068 POD1

Jun. 12, 2017

JUSTIN BARMORE RKI EXPLORATION AND PRODUCTION LLC 3500 ONE WILLIAMS CENTER MD 35 TULSA, OK 74172

Greetings:

The above numbered permit was issued in your name on 05/08/2017.

The Well Record was received in this office on 05/17/2017, stating that it had been completed on 05/12/2017, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 05/15/2018.

If you have any questions, please feel free to contact us.

Sincerely,

(575) 622 - 6521

drywell



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: SS02	Date: 3/12/24		
			NI	C	0 1	Site Name: RDX 17 Federal Com #020H					
						Incident Number: NAB1422341439					
						Job Number: 03A1987048					
		LITHOL	.OGI	C / SOIL S	SAMPLING	Logged By: Israel Estrella	Method: Backhoe				
Coord	inates: 32	2.04905,	-103.8	39746		Hole Diameter: 3'	Total Depth: 10'				
	Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.										
Moisture Content	Chloride (ppm)	ТРН (ррт)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			N	SS02	0	0	CCHE	Caliche - Tan, No odor, No	staining		
D			N	SS02	1	1					
М	2,576		N	SS02	2	2	SP-SM		wn, trace gravel, no odor no staining		
М	1,708		N	SS02	3 _	3					
D	1,181		N	SS02	4 _	4	SM	Sand - Tan, trace gravel, no	o odor no staining		
D	1,092		N	SS02	5 <u> </u>	5					
D	862		N	SS02	6 <u>-</u>	6					
D	520		N	SS02	7 _	7					
D	1,108		N	SS02	8	8					
D	644		N	SS02	9	9					
D	414	64	N	SS02	10	10 Total	Depth =	- 10'			

Total Depth = 10'



APPENDIX D

Photographic Log



Photographic Log

WPX Energy Permian, LLC RDX 17 Federal Com #020H NAB1422341439 & NAB1706053151





Photograph 1 Date:3/12/24

Description: Delineation sampling

View: North

Photograph 2 Date:3/12/24

Description: Delineation sampling

View: North





Photograph 3 Date: 3/13/24 Photograph 4 Date: 3/13/24

Description: Excavation

View: South

Description: Excavation

View: South



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

Ensolum, LLC

Project Name: RDX 17 #20

Work Order: E403133

Job Number: 01058-0007

Received: 3/14/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/19/24

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: 3/19/24

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX 17 #20

Workorder: E403133

Date Received: 3/14/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/14/2024 8:00:00AM, under the Project Name: RDX 17 #20.

The analytical test results summarized in this report with the Project Name: RDX 17 #20 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

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

Cell: 505-320-4759

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

Γ	Ensolum, LLC	Project Name:	RDX 17 #20	Donautada
l	3122 National Parks Hwy	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	03/19/24 13:13

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SS02-3'	E403133-01A Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SS02-5'	E403133-02A Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SS02-7'	E403133-03A Soil	03/12/24	03/14/24	Glass Jar, 2 oz.



Ensolum, LLC	Project Name:	RDX 17 #20	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/19/2024 1:13:27PM

SS02-3' E403133-01

	E403133-01				
Pacult			Pranarad	Analyzad	Notes
Kesuit	Lillit	Dilution	Trepared	Anaryzeu	Notes
mg/kg	mg/kg	Anal	yst: EG		Batch: 2411110
ND	0.0250	1	03/14/24	03/19/24	
ND	0.0250	1	03/14/24	03/19/24	
ND	0.0250	1	03/14/24	03/19/24	
ND	0.0250	1	03/14/24	03/19/24	
ND	0.0500	1	03/14/24	03/19/24	
ND	0.0250	1	03/14/24	03/19/24	
	96.2 %	70-130	03/14/24	03/19/24	
mg/kg	mg/kg	Anal	yst: EG		Batch: 2411110
ND	20.0	1	03/14/24	03/19/24	
	92.2 %	70-130	03/14/24	03/19/24	
mg/kg	mg/kg	Anal	yst: KM		Batch: 2411130
ND	25.0	1	03/15/24	03/16/24	
ND	50.0	1	03/15/24	03/16/24	
	83.2 %	50-200	03/15/24	03/16/24	
mg/kg	mg/kg	Anal	yst: IY		Batch: 2412009
2350	20.0	1	03/18/24	03/19/24	
	ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 MB/kg mg/kg MB/kg mg/kg ND 20.0 92.2 % mg/kg MD 25.0 ND 50.0 83.2 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Anal 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 0.0250 1 96.2 % 70-130 70-130 mg/kg mg/kg Anal ND 20.0 1 92.2 % 70-130 70-130 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 83.2 % 50-200 mg/kg Mg/kg Anal	Reporting Result Limit Dilution Prepared mg/kg Manalyst: EG ND 0.0250 1 03/14/24 ND 0.0250 1 03/14/24 ND 0.0250 1 03/14/24 ND 0.0250 1 03/14/24 ND 0.0500 1 03/14/24 ND 0.0250 1 03/14/24 mg/kg mg/kg Analyst: EG ND 20.0 1 03/14/24 mg/kg mg/kg Analyst: KM ND 25.0 1 03/15/24 ND 25.0 1 03/15/24 ND 50.0 1 03/15/24 ND 50.0 1 03/15/24 mg/kg mg/kg Analyst: KM	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: EG ND 0.0250 1 03/14/24 03/19/24 ND 0.0250 1 03/14/24 03/19/24 ND 0.0250 1 03/14/24 03/19/24 ND 0.0500 1 03/14/24 03/19/24 ND 0.0250 1 03/14/24 03/19/24 ND 0.0250 1 03/14/24 03/19/24 mg/kg mg/kg Analyst: EG ND 20.0 1 03/14/24 03/19/24 mg/kg mg/kg Analyst: EG ND 20.0 1 03/14/24 03/19/24 mg/kg mg/kg Analyst: KM ND 25.0 1 03/15/24 03/16/24 ND 50.0 1 03/15/24 03/16/24 ND 50.0 1 03/15/24 03/16/24

Ensolum, LLC	Project Name:	RDX 17 #20	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/19/2024 1:13:27PM

SS02-5' E403133-02

	2.00100 02				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	yst: EG		Batch: 2411110
ND	0.0250	1	03/14/24	03/19/24	
ND	0.0250	1	03/14/24	03/19/24	
ND	0.0250	1	03/14/24	03/19/24	
ND	0.0250	1	03/14/24	03/19/24	
ND	0.0500	1	03/14/24	03/19/24	
ND	0.0250	1	03/14/24	03/19/24	
	95.9 %	70-130	03/14/24	03/19/24	
mg/kg	mg/kg	Analy	yst: EG		Batch: 2411110
ND	20.0	1	03/14/24	03/19/24	
	93.2 %	70-130	03/14/24	03/19/24	
mg/kg	mg/kg	Analy	yst: KM		Batch: 2411130
ND	25.0	1	03/15/24	03/16/24	
ND	50.0	1	03/15/24	03/16/24	
	77.9 %	50-200	03/15/24	03/16/24	
		A male	ret. IV		Batch: 2412009
mg/kg	mg/kg	Anary	ySt. 11		Batcii. 2412009
	mg/kg ND	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 0.0250 MD 20.0250 95.9 % mg/kg MD 20.0 93.2 % mg/kg MD 25.0 ND 50.0 77.9 %	mg/kg mg/kg Analy 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 25.9% 70-130 Mg/kg mg/kg Analy Mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 77.9% 50-200	Result Limit Dilution Prepared mg/kg mg/kg Analyst: EG ND 0.0250 1 03/14/24 ND 0.0250 1 03/14/24 ND 0.0250 1 03/14/24 ND 0.0500 1 03/14/24 ND 0.0250 1 03/14/24 ND 0.0250 1 03/14/24 mg/kg mg/kg Analyst: EG ND 20.0 1 03/14/24 mg/kg mg/kg Analyst: KM ND 25.0 1 03/15/24 ND 50.0 1 03/15/24 ND 50.0 1 03/15/24	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: EG ND 0.0250 1 03/14/24 03/19/24 ND 0.0250 1 03/14/24 03/19/24 ND 0.0250 1 03/14/24 03/19/24 ND 0.0500 1 03/14/24 03/19/24 ND 0.0250 1 03/14/24 03/19/24 ND 0.0250 1 03/14/24 03/19/24 mg/kg mg/kg Analyst: EG ND 20.0 1 03/14/24 03/19/24 mg/kg mg/kg Analyst: EG ND 20.0 1 03/14/24 03/19/24 mg/kg mg/kg Analyst: KM ND 25.0 1 03/15/24 03/16/24 ND 50.0 1 03/15/24 03/16/24 ND 50.0 1 03/15/24 03/16/24



Ensolum, LLC	Project Name:	RDX 17 #20	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/19/2024 1:13:27PM

SS02-7'

E403133-03

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: EG		Batch: 2411110
Benzene	ND	0.0250	1	03/14/24	03/19/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/19/24	
Toluene	ND	0.0250	1	03/14/24	03/19/24	
o-Xylene	ND	0.0250	1	03/14/24	03/19/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/19/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/19/24	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	03/14/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: EG		Batch: 2411110
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %	70-130	03/14/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2411130
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
Surrogate: n-Nonane		86.2 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: IY		Batch: 2412009
	616	20.0		03/18/24	03/19/24	·



RDX 17 #20 Ensolum, LLC Project Name: Reported: 3122 National Parks Hwy Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Ashley Giovengo 3/19/2024 1:13:27PM **Volatile Organics by EPA 8021B** Analyst: EG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2411110-BLK1) Prepared: 03/14/24 Analyzed: 03/18/24 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 7.54 8.00 94.2 70-130 LCS (2411110-BS1) Prepared: 03/14/24 Analyzed: 03/18/24 4.94 98.7 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.96 0.0250 5.00 99.3 70-130 4.95 0.0250 5.00 99.0 70-130 Toluene 98.0 o-Xylene 4.90 0.0250 5.00 70-130 10.0 10.0 100 70-130 0.0500 p.m-Xvlene 99.3 70-130 14.9 15.0 Total Xylenes 0.0250 8.00 94.4 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.56 Matrix Spike (2411110-MS1) Source: E403125-04 Prepared: 03/14/24 Analyzed: 03/18/24 4.92 0.0250 5.00 ND 98.3 54-133 Benzene ND 98.1 61-133 Ethylbenzene 4.91 0.0250 5.00 Toluene 4.92 0.0250 5.00 ND 98.3 61-130 4.82 ND 63-131 5.00 96.4 0.0250 o-Xylene p,m-Xylene 9.89 0.0500 10.0 ND 98.9 63-131 14.7 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.47 8.00 Matrix Spike Dup (2411110-MSD1) Source: E403125-04 Prepared: 03/14/24 Analyzed: 03/18/24 5.10 0.0250 5.00 ND 102 54-133 3.65 20 ND 61-133 3.42 5.08 0.0250 5.00 102 20 Ethylbenzene Toluene 5.08 0.0250 5.00 ND 102 61-130 3 35 20 4.99 5.00 ND 99.8 63-131 3.45 20 o-Xylene 0.0250 10.2 10.0 ND 102 63-131 3.35 20

0.0500

0.0250

15.0

8.00

ND

101

93.7

63-131

70-130

3.39

20

15.2

7.50



p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Ensolum, LLC	Project Name:	RDX 17 #20	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/19/2024 1:13:27PM

Carlsbad NM, 88220		Project Manage	r: As	shley Gioveng	go			3/1	9/2024 1:13:27PM	
	Non	Nonhalogenated Organics by EPA 8015D - GRO						Analyst: EG		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes	
Blank (2411110-BLK1)							Prepared: 0	3/14/24 Anal	yzed: 03/18/24	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130				
LCS (2411110-BS2)							Prepared: 0	3/14/24 Anal	yzed: 03/18/24	
Gasoline Range Organics (C6-C10)	52.6	20.0	50.0		105	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130				
Matrix Spike (2411110-MS2)				Source:	E403125-	04	Prepared: 0	3/14/24 Anal	yzed: 03/18/24	
Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130				
Matrix Spike Dup (2411110-MSD2)				Source:	E403125-	04	Prepared: 0	3/14/24 Anal	yzed: 03/18/24	
Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130	0.170	20		

8.00

7.41

92.7

70-130

Ensolum, LLC	Project Name:	RDX 17 #20	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/19/2024 1:13:27PM

Carlsbad NM, 88220		Project Manager	r: As	hley Gioveng	go				/19/2024 1:13:2/PN
	Nonha	logenated Or	ganics by l	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 (2411130-BLK1)							Prepared: 0	3/15/24 An	alyzed: 03/16/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	46.2		50.0		92.4	50-200			
LCS (2411130-BS1)							Prepared: 0	3/15/24 An	alyzed: 03/16/24
Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
urrogate: n-Nonane	47.5		50.0		95.0	50-200			
Matrix Spike (2411130-MS1)				Source:	E403118-0)2	Prepared: 0	3/15/24 An	alyzed: 03/16/24
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
urrogate: n-Nonane	42.3		50.0		84.6	50-200			
Matrix Spike Dup (2411130-MSD1)				Source:	E403118-0)2	Prepared: 0	3/15/24 An	alyzed: 03/16/24
Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132	1.11	20	
Gurrogate: n-Nonane	43.2		50.0		86.4	50-200			

Ensolum, LLC	Project Name:	RDX 17 #20	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	·
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/19/2024 1:13:27PM

Anions by EPA 300.0/9056A

Anions by EPA 300.0/9056A								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 (2412009-BLK1)							Prepared: 0	3/18/24 An	nalyzed: 03/18/24	
Chloride	ND	20.0								
LCS (2412009-BS1)							Prepared: 0	3/18/24 An	nalyzed: 03/18/24	
Chloride	258	20.0	250		103	90-110				
LCS Dup (2412009-BSD1)							Prepared: 0	3/18/24 An	nalyzed: 03/18/24	
Chlorida	258	20.0	250		103	90-110	0.101	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 17 #20	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	03/19/24 13:13

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.



		EF	A P	rogra	m
nda	rd	CV	VA	SD	WA
X				RC	RA
-		Sta	ite	_	_
MV	СО	UT	AZ	TX	
×			<u> </u>		
_					_

Report du	ue by:				Bill To				Lab l	Jse C	Only		V.	5.2	TA	Г	EPA P	rogram
Project:	RDX 17 #2	20			Attention: Jim Raley		Lab	WO#		Jol		mber	1D	2D	3D	Standard	CWA	SDW
Project M	lanager: Ash	ley Giove	ngo		Address: 5315 Buena Vista Dr	J.	Er	₩O# 103	133	01	058	3-0007				x		1
Address:	3122 Nation	al Parks H	wy		City, State, Zip: Carlsbad NM, 882	20						and Metho	od					RCR/
	e, Zip: Carlsb	ad NM, 8	8220		Phone: (575)689-7597			by							-			
Phone: 5	75-988-0055				Email: jim.raley@dvn.com			8									State	
Email: ag	iovengo@en	solum.co	m				1	30/		_	0.0		ΣN			NM CO	UT AZ	TX
Report du	ie by:							JQ/C	by 8021	5010	300		WILDO		¥	×		
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	
10:13	3/12/2024	Soil	1		SS02 - 3'								х					
10:31	3/12/2024	soil	1		SS02 - 5'	Z							х					
10:57	3/12/2024	Soil	1		SS02 - 7'	3							х					
									+	-	-			-				
										+	+		-	-				
										+	+							
									+	+	+							
									+									
Additiona	al Instruction	s: Pleas	e CC: cbu	ırton@ensolu	m.com, agiovengo@ensolum.com, jim	raley@dvr	n.con	n, chan	nilton	@en	solur	m.com, ie	strel	la@e	nsolur	n.com		
				of this sample. I am	aware that tampering with or intentionally mislabelling action. Sampled by: Israel Estrella	ng the sample lo	ocation	,				· · · · · · · · · · · · · · · · · · ·				eived on ice the da		
Relinquishe	d by: (Signature)	£.	Date 3/	13/24 Time	Received by: (Signature) Signature) Willly your lives	3-13-	24	Time 10	02	Re	ceive	d on ice:		ab Us	e Only	1		
Mich		h		3-24 Time	Received by: (Signature)	3·13	.24	Time 17	00	T1			T2			<u>T3</u>		
Religiouished	d by: (Signature)	Y	Date 3.	13.24 7	300 Received by: (Signature)	3 14	24	Time Og i	00	AV	/G Te	mp °C	f					
74.0																		



Printed: 3/14/2024 2:59:34PM

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. Ensolum, LLC Date Received: Client: 03/14/24 08:00 Work Order ID: E403133 Logged In By: Alexa Michaels Date Logged In: Phone: (575) 988-0055 03/13/24 17:38 Due Date: 03/20/24 17:00 (4 day TAT) Email: a.giovengo@ensolum.com Chain of Custody (COC) 1. Does the sample ID match the COC? Yes 2. Does the number of samples per sampling site location match the COC Yes 3. Were samples dropped off by client or carrier? Yes Carrier: Courier 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No 5. Were all samples received within holding time? Yes Note: Analysis, such as pH which should be conducted in the field, Comments/Resolution i.e, 15 minute hold time, are not included in this disucssion. Sample Turn Around Time (TAT) Client name was not on COC. Added 6. Did the COC indicate standard TAT, or Expedited TAT? Yes Ensolum on COC as client per Lynn per Sample Cooler 7. Was a sample cooler received? Yes text message 8. If yes, was cooler received in good condition? Yes 9. Was the sample(s) received intact, i.e., not broken? Yes 10. Were custody/security seals present? Nο 11. If yes, were custody/security seals intact? NA 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C Sample Container 14. Are aqueous VOC samples present? No 15. Are VOC samples collected in VOA Vials? NA NA 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? NA 18. Are non-VOC samples collected in the correct containers? Yes 19. Is the appropriate volume/weight or number of sample containers collected? Yes Field Label 20. Were field sample labels filled out with the minimum information: Sample ID? Yes Date/Time Collected? Yes Collectors name? Yes Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? NA 24. Is lab filteration required and/or requested for dissolved metals? No Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase? No 27. If yes, does the COC specify which phase(s) is to be analyzed? NA Subcontract Laboratory 28. Are samples required to get sent to a subcontract laboratory? No 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA **Client Instruction**

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

envirotech Inc.

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 17 #20

Work Order: E403134

Job Number: 01058-0007

Received: 3/14/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 3/22/24

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: 3/22/24

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX 17 #20

Workorder: E403134

Date Received: 3/14/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/14/2024 8:00:00AM, under the Project Name: RDX 17 #20.

The analytical test results summarized in this report with the Project Name: RDX 17 #20 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

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

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Golzales

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

C 11 505 0 15 0000

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Γ	Ensolum, LLC	Project Name:	RDX 17 #20	D out. d.
l	3122 National Parks Hwy	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	03/22/24 10:32

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS02-9'	E403134-01A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SS02-10'	E403134-02A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.



Ensolum, LLC	Project Name:	RDX 17 #20	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/22/2024 10:32:20AM

SS02-9'

		E403134-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: EG		Batch: 2411110
Benzene	ND	0.0250	1	03/14/24	03/19/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/19/24	
Toluene	ND	0.0250	1	03/14/24	03/19/24	
o-Xylene	ND	0.0250	1	03/14/24	03/19/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/19/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/19/24	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	03/14/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: EG		Batch: 2411110
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.1 %	70-130	03/14/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2411130
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
Surrogate: n-Nonane		79.4 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2412009
Chloride	644	20.0	1	03/18/24	03/19/24	



Ensolum, LLC	Project Name:	RDX 17 #20	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/22/2024 10:32:20AM

SS02-10'

		E403134-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: EG		Batch: 2411110
Benzene	ND	0.0250	1	03/14/24	03/19/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/19/24	
Toluene	ND	0.0250	1	03/14/24	03/19/24	
o-Xylene	ND	0.0250	1	03/14/24	03/19/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/19/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/19/24	
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	03/14/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: EG		Batch: 2411110
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	03/14/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: KM		Batch: 2411130
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
Surrogate: n-Nonane		86.0 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2412009
Chloride	385	40.0	2	03/18/24	03/19/24	



RDX 17 #20 Ensolum, LLC Project Name: Reported: 3122 National Parks Hwy Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Ashley Giovengo 3/22/2024 10:32:20AM **Volatile Organics by EPA 8021B** Analyst: EG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2411110-BLK1) Prepared: 03/14/24 Analyzed: 03/18/24 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 7.54 8.00 94.2 70-130 LCS (2411110-BS1) Prepared: 03/14/24 Analyzed: 03/18/24 4.94 98.7 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.96 0.0250 5.00 99.3 70-130 4.95 0.0250 5.00 99.0 70-130 Toluene 98.0 o-Xylene 4.90 0.0250 5.00 70-130 10.0 10.0 100 70-130 0.0500 p.m-Xvlene 99.3 70-130 14.9 15.0 Total Xylenes 0.0250 8.00 94.4 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.56 Matrix Spike (2411110-MS1) Source: E403125-04 Prepared: 03/14/24 Analyzed: 03/18/24 4.92 0.0250 5.00 ND 98.3 54-133 Benzene ND 98.1 61-133 Ethylbenzene 4.91 0.0250 5.00 Toluene 4.92 0.0250 5.00 ND 98.3 61-130 4.82 ND 63-131 5.00 96.4 0.0250 o-Xylene p,m-Xylene 9.89 0.0500 10.0 ND 98.9 63-131 14.7 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.47 8.00 Matrix Spike Dup (2411110-MSD1) Source: E403125-04 Prepared: 03/14/24 Analyzed: 03/18/24

5.10

5.08

5.08

4.99

10.2

15.2

7.50

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

5.00

5.00

5.00

5.00

10.0

15.0

8.00

ND

ND

ND

ND

ND

ND

102

102

102

99.8

102

101

93.7

54-133

61-133

61-130

63-131

63-131

63-131

70-130

3.65

3.42

3 35

3.45

3.35

3.39

20

20

20

20

20

20



Ethylbenzene Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Ensolum, LLC	Project Name:	RDX 17 #20	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/22/2024 10:32:20AM

Carlsbad NM, 88220		Project Manage	r: As	hley Gioveng	go			3/22	/2024 10:32:20AM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO		I	Analyst: EG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2411110-BLK1)							Prepared: 0	3/14/24 Analy	zed: 03/18/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			
LCS (2411110-BS2)							Prepared: 0	3/14/24 Analy	zed: 03/18/24
Gasoline Range Organics (C6-C10)	52.6	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130			
Matrix Spike (2411110-MS2)				Source:	E403125-	04	Prepared: 0	3/14/24 Analy	zed: 03/18/24
Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			
Matrix Spike Dup (2411110-MSD2)				Source:	E403125-	04	Prepared: 0	3/14/24 Analy	zed: 03/18/24
Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130	0.170	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Ensolum, LLC	Project Name:	RDX 17 #20	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/22/2024 10:32:20AM

Carlsbad NM, 88220		Project Manager	r: As	hley Gioveng	go			3/.	22/2024 10:32:20AI
	Nonha	logenated Or	ganics by l	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 (2411130-BLK1)							Prepared: 0	3/15/24 Ana	lyzed: 03/16/24
iesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	46.2		50.0		92.4	50-200			
CS (2411130-BS1)							Prepared: 0	3/15/24 Ana	lyzed: 03/16/24
iesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
urrogate: n-Nonane	47.5		50.0		95.0	50-200			
Matrix Spike (2411130-MS1)				Source:	E403118-0	02	Prepared: 0	3/15/24 Ana	lyzed: 03/16/24
iesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
urrogate: n-Nonane	42.3		50.0		84.6	50-200			
Matrix Spike Dup (2411130-MSD1)				Source:	E403118-0	02	Prepared: 0	3/15/24 Ana	lyzed: 03/16/24
iesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132	1.11	20	
urrogate: n-Nonane	43.2		50.0		86.4	50-200			

Ensolum, LLC	Project Name:	RDX 17 #20	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/22/2024 10:32:20AM

Anions by EPA 300.0/9056A

		Anions	by EPA 3	00.0/9056	4				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 (2412009-BLK1)							Prepared: 0	3/18/24 An	alyzed: 03/18/24
Chloride	ND	20.0							
LCS (2412009-BS1)							Prepared: 0	3/18/24 An	alyzed: 03/18/24
Chloride	258	20.0	250		103	90-110			
LCS Dup (2412009-BSD1)							Prepared: 0	3/18/24 An	alyzed: 03/18/24
Chloride	258	20.0	250		103	90-110	0.191	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 17 #20	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	03/22/24 10:32

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.



of \

Clent: En	DOIVA	7	1	Bill	TO.			15	h Hea	Only	,			TA	т	EDAD	rogram
roject: RDX 17	#20			Attention: Jim Raley	U	Lab	MO#					1D	2D	3D	Standard	CWA	SDW
roject Manager: Asl		ngo		Address: 5315 Buena V	ista Dr	FC	TO"	313	4/	and a	umber 8-0007	10	20	30	X	CVVA	3000
ddress: 3122 Nation		7.70		City, State, Zip: Carlsba		-	10.		A	nalys	is and Metho	d					RCRA
ity, State, Zip: Carls				Phone: (575)689-7597			ρ́ρ			Ť				-			11.01.0
hone: 575-988-005				Email: jim.raley@dvn.c	om		ORO									State	
mail: agiovengo@ei	solum.co	m		1		1 1	30/0				0.	ΣZ			NM CO	UT AZ	TX
eport due by:							0/0	8021	826	5010	300			¥	×		
Time Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number		TPH GRO/DRO/ORO by 8015	BTEX by	VOC by 8260	Metals 6010	Chloride 300.0	ВСБОС		GDOC		Remarks	
11:33 3/12/2024	Soil	1		SS02 - 9'								х			Run only i	f SS02 - 7' is >60	00ci 100 TPH
11:37 3/12/2024	Soil	1		SS02 - 10'	2							х			Run only I	f SSO2 - 7' is >60	00cl 100 TPH
dditional Instructio	ns: Pleas	se CC: cbi	urton@ensolum.c	com, agiovengo@ensolun	n.com, jim.raley@dvi	n.com	, cha	milto	on@e	ensol	um.com, ies	trella	a@er	nsolur	n.com		
ate or time of collection is conceilinguished by: (Signatur Languished	nsidered frau	Date 3/	re grounds for legal action Time 13/24 \$= 3 13 J4 Time 1530	Received by: (Signature) Received by: (Signature)	Date 3-13	24	Time 10	02	F	eceived		avg ten	np abov	e 0 but le	every on ice the day ess than 6 °C on sub- y		
elinguished by: (Signatur	2))	Date	13.24 230	Received by: (Signature) Date 3/4/	24	Time OP	00	A	AVG T	remp °C	-					



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Printed: 3/14/2024 4:34:31PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

ustructions:	Please take note of any NO checkmarks.	

II.

	Date Received:	03/14/24	08:00	Work Order ID: E403	134
Phone: (575) 988-0055	Date Logged In:	03/13/24	17:40	Logged In By: Alex	a Michaels
Email: a.giovengo@ensolum.com	Due Date:	03/20/24	17:00 (4 day TAT)		
Chain of Custody (COC)					
. Does the sample ID match the COC?		Yes			
2. Does the number of samples per sampling site location mate	h the COC	Yes			
3. Were samples dropped off by client or carrier?		Yes	Carrier: C	<u>Courier</u>	
. Was the COC complete, i.e., signatures, dates/times, request	ed analyses?	No			
 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 disucssion 		Yes		Comments/Reso	<u>blution</u>
Sample Turn Around Time (TAT)				Client name was not on COO	¬ ∆dded
6. Did the COC indicate standard TAT, or Expedited TAT?		Yes			
Sample Cooler_				Ensolum on COC as client p	
7. Was a sample cooler received?		Yes		text message. See COC for C	Client remarks
B. If yes, was cooler received in good condition?		Yes			
9. Was the sample(s) received intact, i.e., not broken?		Yes			
10. Were custody/security seals present?		No			
11. If yes, were custody/security seals intact?		NA			
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling 13. If no visible ice, record the temperature. Actual sample t	received w/i 15	Yes C			
•	·po	_			
Sample Container 14. Are aqueous VOC samples present?		No			
15. Are VOC samples present:		NA			
16. Is the head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a trip blank (TB) included for VOC analyses?		NA			
18. Are non-VOC samples collected in the correct containers?		Yes			
19. Is the appropriate volume/weight or number of sample contained	ers collected?	Yes			
Field Label					
20. Were field sample labels filled out with the minimum infor	mation:				
Sample ID?		Yes			
Date/Time Collected?		Yes	l		
Collectors name?		Yes			
Sample Preservation					
21. Does the COC or field labels indicate the samples were pre	served?	No			
22. Are sample(s) correctly preserved?		NA			
24. Is lab filteration required and/or requested for dissolved me	tals?	No			
Multiphase Sample Matrix					
26. Does the sample have more than one phase, i.e., multiphase	e?	No			
. , , .	zed?	NA			
27. If yes, does the COC specify which phase(s) is to be analyzed					
27. If yes, does the COC specify which phase(s) is to be analyzed					
	/ ?	No			
27. If yes, does the COC specify which phase(s) is to be analyzed subcontract Laboratory		No NA	Subcontract Lab	o: NA	

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 17 #20

Work Order: E403142

Job Number: 01058-0007

Received: 3/15/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/20/24

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: 3/20/24

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX 17 #20 Workorder: E403142

Date Received: 3/15/2024 6:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/15/2024 6:45:00AM, under the Project Name: RDX 17 #20.

The analytical test results summarized in this report with the Project Name: RDX 17 #20 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

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

Cell: 505-320-4759

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

Ensolum, LLC	Project Name:	RDX 17 #20	Donoutod.
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	03/20/24 13:32

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
FS01-4'	E403142-01A Soil	03/13/24	03/15/24	Glass Jar, 2 oz.
FS02-4'	E403142-02A Soil	03/13/24	03/15/24	Glass Jar, 2 oz.



Ensolum, LLC	Project Name:	RDX 17 #20	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/20/2024 1:32:41PM

FS01-4' E403142-01

		E403142-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2411141
Benzene	ND	0.0250	1	03/15/24	03/19/24	
Ethylbenzene	ND	0.0250	1	03/15/24	03/19/24	
Toluene	ND	0.0250	1	03/15/24	03/19/24	
o-Xylene	ND	0.0250	1	03/15/24	03/19/24	
p,m-Xylene	ND	0.0500	1	03/15/24	03/19/24	
Total Xylenes	ND	0.0250	1	03/15/24	03/19/24	
Surrogate: 4-Bromochlorobenzene-PID		94.1 %	70-130	03/15/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2411141
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/24	03/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %	70-130	03/15/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2412002
Diesel Range Organics (C10-C28)	ND	25.0	1	03/18/24	03/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/18/24	03/19/24	
Surrogate: n-Nonane		69.5 %	50-200	03/18/24	03/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2412021
Chloride	1070	20.0	1	03/18/24	03/20/24	

Ensolum, LLC	Project Name:	RDX 17 #20	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/20/2024 1:32:41PM

FS02-4'

		E403142-02				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: EG		Batch: 2411141
Benzene	ND	0.0250	1	03/15/24	03/19/24	
Ethylbenzene	ND	0.0250	1	03/15/24	03/19/24	
Toluene	ND	0.0250	1	03/15/24	03/19/24	
o-Xylene	ND	0.0250	1	03/15/24	03/19/24	
p,m-Xylene	ND	0.0500	1	03/15/24	03/19/24	
Total Xylenes	ND	0.0250	1	03/15/24	03/19/24	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	03/15/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: EG		Batch: 2411141
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/24	03/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	70-130	03/15/24	03/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2412002
Diesel Range Organics (C10-C28)	ND	25.0	1	03/18/24	03/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/18/24	03/19/24	
Surrogate: n-Nonane		74.8 %	50-200	03/18/24	03/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: IY		Batch: 2412021
Chloride	1460	20.0	1	03/18/24	03/20/24	



		QC 50	u 11111116	iry Dat	a				
Ensolum, LLC 3122 National Parks Hwy		Project Name: Project Number:	01	DX 17 #20 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	A	shley Gioven	go				3/20/2024 1:32:41PM
		Volatile O	rganics l	by EPA 802	21B				Analyst: EG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2411141-BLK1)							Prepared: 0	3/15/24 /	Analyzed: 03/19/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.7	70-130			
LCS (2411141-BS1)							Prepared: 0	3/15/24 A	Analyzed: 03/19/24
Benzene	4.94	0.0250	5.00		98.7	70-130			
Ethylbenzene	4.97	0.0250	5.00		99.4	70-130			
Coluene	4.95	0.0250	5.00		99.1	70-130			
o-Xylene	4.91	0.0250	5.00		98.3	70-130			
o,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	14.9	0.0250	15.0		99.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.7	70-130			
Matrix Spike (2411141-MS1)				Source:	E403140-	10	Prepared: 0	3/15/24 A	Analyzed: 03/19/24
Benzene	4.93	0.0250	5.00	ND	98.6	54-133			
Ethylbenzene	4.97	0.0250	5.00	ND	99.5	61-133			
Toluene	4.95	0.0250	5.00	ND	99.1	61-130			
p-Xylene	4.91	0.0250	5.00	ND	98.3	63-131			
o,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			
Matrix Spike Dup (2411141-MSD1)				Source:	E403140-	10	Prepared: 0	3/15/24 A	Analyzed: 03/19/24
Benzene	5.00	0.0250	5.00	ND	100	54-133	1.35	20	
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133	1.82	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	1.59	20	
o-Xylene	5.02	0.0250	5.00	ND	100	63-131	2.12	20	

10.0

15.0

8.00

0.0500

0.0250

ND

ND

102

102

95.8

63-131

63-131

70-130

1.94

2.00

20

20



p,m-Xylene Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

10.2

15.2

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Ensolum, LLC	Project Name:	RDX 17 #20	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/20/2024 1:32:41PM

Carlsbad NM, 88220		Project Manage	r: As	shley Gioveng	go			3/2	20/2024 1:32:41PM	
	Nonhalogenated Organics by EPA 8015D - GRO							Analyst: EG		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2411141-BLK1)							Prepared: 03	3/15/24 Anal	lyzed: 03/19/24	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.6	70-130				
LCS (2411141-BS2)							Prepared: 03	3/15/24 Anal	lyzed: 03/19/24	
Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130				
Matrix Spike (2411141-MS2)				Source:	E403140-	10	Prepared: 03	3/15/24 Anal	lyzed: 03/19/24	
Gasoline Range Organics (C6-C10)	51.0	20.0	50.0	ND	102	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130				
Matrix Spike Dup (2411141-MSD2)				Source:	E403140-	10	Prepared: 03	3/15/24 Anal	lyzed: 03/19/24	
Gasoline Range Organics (C6-C10)	51.0	20.0	50.0	ND	102	70-130	0.00294	20		

8.00

7.65

95.6

70-130

Ensolum, LLC	Project Name:	RDX 17 #20	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/20/2024 1:32:41PM

Carlsbad NM, 88220		Project Manager	r: As	hley Gioveng	go				3/20/2024 1:32:41PN
	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 (2412002-BLK1)							Prepared: 0	3/18/24 Aı	nalyzed: 03/18/24
tiesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	37.9		50.0		75.8	50-200			
LCS (2412002-BS1)							Prepared: 0	3/18/24 Aı	nalyzed: 03/18/24
riesel Range Organics (C10-C28)	227	25.0	250		90.6	38-132			
urrogate: n-Nonane	36.3		50.0		72.6	50-200			
Matrix Spike (2412002-MS1)				Source:	E403140-0	04	Prepared: 0	3/18/24 Aı	nalyzed: 03/18/24
riesel Range Organics (C10-C28)	239	25.0	250	ND	95.6	38-132			
urrogate: n-Nonane	40.0		50.0		80.0	50-200			
Matrix Spike Dup (2412002-MSD1)				Source:	E403140-0	04	Prepared: 0	3/18/24 Aı	nalyzed: 03/18/24
tiesel Range Organics (C10-C28)	235	25.0	250	ND	94.1	38-132	1.61	20	
urrogate: n-Nonane	38.5		50.0		76.9	50-200			



Analyst: IY

QC Summary Data

Ensolum, LLC	Project Name:	RDX 17 #20	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/20/2024 1:32:41PM

Anions by EPA 300.0/9056A

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2412021-BLK1)							Prepared: 0	3/18/24	Analyzed: 03/19/24
Chloride	ND	20.0					1		
LCS (2412021-BS1)							Prepared: 0	3/18/24	Analyzed: 03/19/24
Chloride	252	20.0	250		101	90-110			
LCS Dup (2412021-BSD1)							Prepared: 0	3/18/24	Analyzed: 03/19/24
Chloride	251	20.0	250		100	90-110	0.512	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

ſ	Ensolum, LLC	Project Name:	RDX 17 #20	
١	3122 National Parks Hwy	Project Number:	01058-0007	Reported:
١	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	03/20/24 13:32

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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of

Report di	Ensolun	7				Bill To			1	ab Us	so Or	dv		Г		TA	т —	EPA P	rogra
roject:	RDX 17 #	20				Attention: Jim Raley		Lab WO					er	1D	2D		Standard		SDV
roject N					Address: 5315 Buena Vista	Dr	Lab WO E 403	314	2	DIC	158-1	007				х			
	3122 Nationa					City, State, Zip: Carlsbad N	M, 88220				Analy	sis and	Metho	d					RC
	e, Zip: Carlsb	ad NM, 8	8220			Phone: (575)689-7597		yd C										4	
	75-988-0055	- Y 201				Email: jim.raley@dvn.com		ORC										State	
	giovengo@en	solum.co	m		-			DRO,	021	9	9	0.00		ΣZ		¥	NM C	O UT AZ	TX
Report du	ue by:							RO/I	oy 80	y 82	s 60.	de 30		1			×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	TPH GRO/DRO/ORO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		верос		GDOC		Remarks	S
11:06	3/13/2024	Soil	1			FS01 - 4'	1							х					
11:08	3/13/2024	Soil	1			FS02 - 4'	2							х					
									\vdash							1			
									+	+						+			
-									-	+									-
									-	-						+			-
									-	-		-	-			4			
									1	_			_						
ddition	al Instruction	s: Pleas	e CC: cbu	urton@ens	olum.con	n, agiovengo@ensolum.co	m, jim.raley@dvr	n.com, ch	iamil	ton@	penso	olum.c	om, ies	strella	@en	solui	n.com		
	ler), attest to the v					that tampering with or intentionally Sampled by: _Israe		ocation,						A. C. C. A.				day they are san	400
	d by: (Signature)		Date 3/1	Ті	me 9-15	Received by: (Signature)	Date 3-14	H Time	91	5	Rece	eived o	n ice:		b Use	e Onl	y		
elinquishe MUU	d by: (Signature)	mle	Date	14-24	1530	Received by: (Signature)	3/15/	Time	04		T1			T2			T3		
≥linquishe	d by: (Signature)	1	Date		me	Received by: (Signature)	Date	Time	1			_	. 4	-					
											AVG	Temp	C_ 1						



envirotech

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Printed: 3/15/2024 12:34:07PM

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, a	ill the samples will l	e analyzed as r	equested.	

Oate O3/14/24	17:39 17:00 (4 day TAT) Carrier: <u>Courier</u>	Logged In By:	Alexa Michaels	
Yes COC Yes Yes allyses? Yes	<u></u>			
COC Yes Yes yes yes Yes Yes	Carrier: <u>Courier</u>			
COC Yes Yes yes yes Yes Yes	Carrier: <u>Courier</u>			
Yes allyses? Yes	Carrier: <u>Courier</u>			
Yes allyses? Yes	Carrier: <u>Courier</u>			
alyses? Yes				
Yes				
eld,				
		Comment	s/Resolution	
Yes				
Yes			•	
Yes				
Yes				ı
±2°C Yes				
erature: <u>4°C</u>				
No				
NA				
NA				
NA				
Yes				
llected? Yes	į			
on;				
Yes				
Yes	\ <u></u>	-		
Yes				
10).				
No				
No				
NA				
No				
no? NA	Subcontract Lab: NA			
	Yes Yes Yes No NA #2°C Yes ed w/i 15 Trature: 4°C No NA NA NA Yes Hected? Yes Yes Yes Yes Yon: Yes Yes Yon NA No	Yes Yes No NA #2°C Yes ed w/i 15 Trature: 4°C No NA NA NA Yes Illected? Yes Yes Yes Yes Yes Yes Yes Yes No NA NO NA NO NA NO NO NA NO NO NA NO NO NA NO NO NO NA NO	Yes Yes Yes No NA \$\frac{1}{2}^{\circ}C\$ Yes ed \(w/i\) 15 Tature: \(\frac{4}{2}^{\circ}C\) No NA NA NA NA NA Yes Silected? Yes on: Yes Yes Yes Yes Yes No NA No No NA No	Yes



APPENDIX F

NMOCD Notifications

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 321968

QUESTIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	321968
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1706053151
Incident Name	NAB1706053151 RDX 17 FEDERAL COM #020H @ 30-015-41381
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-41381] RDX 17 FEDERAL COM #020H

Location of Release Source					
Site Name	RDX 17 FEDERAL COM #020H				
Date Release Discovered	02/10/2017				
Surface Owner	Federal				

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	400
What is the estimated number of samples that will be gathered	3
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/13/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Contact Ashley Giovengo 575-988-0055
Please provide any information necessary for navigation to sampling site	Location at 32.0489464° N, -103.8974533° W

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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 321968

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	321968
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/11/2024

From: <u>Maxwell, Ashley, EMNRD</u>

To: Raley, Jim

Subject: RE: [EXTERNAL] WPX Energy Extension Reguest - NAB1422341439

Date: Friday, February 16, 2024 7:58:41 AM

Attachments: image001.png

Good Morning Jim,

Your extension request for 90 days has been approved. Please submit a report via the OCD permitting portal by June 21, 2024.

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

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/.

From: Raley, Jim < <u>Jim.Raley@dvn.com</u>>

Sent: Thursday, February 15, 2024 12:15 PM

To: Hamlet, Robert, EMNRD < <u>Robert.Hamlet@emnrd.nm.gov</u>>

Subject: [EXTERNAL] WPX Energy Extension Request - NAB1422341439

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

Robert,

WPX Energy is requesting and extension for incident# NAB1422341439 for the RDX 17-20H. This incident occurred on 7/30/2014.

The previous closure request was denied as a small area off pad was above the closure criteria. We anticipate excavating this small area, but cannot proceed without BLM sundry approval. We are still waiting on BLM to review the sundry application and give permission for equipment off pad.

Due to this delay in receiving landowners permission we ask for an additional 90 days to complete.

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



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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

Action 356498

QUESTIONS

ı	Operator:	OGRID:
ı	WPX Energy Permian, LLC	246289
ı	Devon Energy - Regulatory	Action Number:
ı	Oklahoma City, OK 73102	356498
ı		Action Type:
ı		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAB1422341439	
Incident Name	NAB1422341439 RDX 17 FEDERAL COM #020H @ 30-015-41381	
Incident Type	Produced Water Release	
Incident Status	Remediation Closure Report Received	
Incident Well	[30-015-41381] RDX 17 FEDERAL COM #020H	

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RDX 17 FEDERAL COM #020H
Date Release Discovered	07/30/2014
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	Not answered.	
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Cause: Equipment Failure Valve Gelled Brine (Frac Fluid) Released: 700 BBL Recovered: 698 BBL Lost: 2 BBL.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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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 356498

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	1 E, 14141 07 303
QUEST	IONS (continued)
Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289 Action Number: 356498 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial Response	restate harged that would result in injury
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury. The source of the release has been stopped True The impacted area has been secured to protect human health and the environment True	
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.
	lation 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 evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for release 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 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: 06/21/2024

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QUESTIONS, Page 3

Action 356498

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	356498
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Greater than 5 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Between 1 and 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Medium	
A 100-year floodplain	Between 500 and 1000 (ft.)	
Did the release impact areas not on an exploration, development, production, or storage site	Yes	

the district office no later than 90 days after the release discovery date. The the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. The release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
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ediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
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024
024
ssion and may (be) change(d) over time as more remediation efforts are completed.

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

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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 4

Action 356498

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	356498
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	Not answered.	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Yes	
In which state is the disposal taking place	Texas	
What is the name of the out-of-state facility	R360	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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

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

I hereby agree and sign off to the above statement

Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 06/21/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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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, Page 5

Action 356498

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	356498
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation. Requesting a deferral of the remediation closure due date with the approval of this No submission

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

<u>District II</u> 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III**

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV** 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 6

Action 356498

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	356498
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	356594
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/27/2022
What was the (estimated) number of samples that were to be gathered	18
What was the sampling surface area in square feet	2707

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all re	emediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	2707	
What was the total volume (cubic yards) remediated	204	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	2707	
What was the total volume (in cubic yards) reclaimed	204	
Summarize any additional remediation activities not included by answers (above)	Soils removed	

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

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Email: jim.raley@dvn.com
Date: 06/21/2024

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

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QUESTIONS, Page 7

Action 356498

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory Oklahoma City, OK 73102	Action Number: 356498
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

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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 356498

CONDITIONS

	CODID
Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	356498
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	7/23/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	7/23/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	7/23/2024