ENSOLUM

September 27, 2023

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

Re: Closure Request RDX Federal 21 #041 & #042 Incident Numbers nAPP2305933356 & nAPP2320173651 Eddy County, New Mexico

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of WPX Energy Permian, LLC (WPX), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the RDX Federal 21 #041 & #042 (Site) in Unit M, Section 21, Township 26 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the Site assessment, excavation, and soil sampling activities was to address waste-containing soil resulting from two releases of crude oil and produced water at the Site. Based on the excavation activities and analytical results from the soil sampling events, WPX is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Numbers nAPP2305933356 and nAPP2320173651.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Eddy County, New Mexico (32.0223007°, -103.8916702°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On February 20, 2023, high fluid levels sent approximately 1 barrel (bbl) of crude oil to the flare. The majority of the fluid was consumed by a fire at the base of the flare. A small volume of fluid misted the vegetation off-pad south of the flare. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on February 28, 2023. The release was assigned Incident Number nAPP2305933356.

On July 20, 2023, a flow line below ground level developed a leak causing 17 bbls of produced water to release to the pad surface and the caliche road off-pad. WPX reported the release to the NMOCD on a Form C-141 on July 31, 2023. The release was assigned Incident Number nAPP2320173651.

Since these two releases occurred in the vicinity of each other on the same well pad, WPX addressed the two releases together and below is a summary of remedial actions completed to address both releases.

RDX Federal 21 #041 & #042

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

The closest permitted groundwater well with depth to groundwater data is WPX well RDX Federal Com 21-43, located approximately 0.3 miles east of the Site. The well had a reported depth to groundwater greater than 105 feet below ground surface (bgs) and a total depth of 110 feet bgs. There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallow groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 0.23 miles northwest 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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On March 30, 2023, Site assessment activities were conducted to evaluate the RDX Federal 21 #041 release extent based on information provided on the Form C-141 and visual observations. Four preliminary assessment soil samples (SS01 through SS04) were collected around the release extent from the ground surface (0 feet bgs) to assess the lateral extent and one borehole (SS05) was advanced via hand auger within the release extent to assess the vertical extent. The pothole was advanced to a depth 0.5 feet bgs. The borehole and delineation soil sample locations are depicted on Figure 2.

On August 14, 2023, Site assessment activities were conducted to evaluate the RDX Federal 21 #042 release extent based on information provided on the Form C-141 and visual observations. Seven preliminary assessment soil samples (SS01 through SS07) were collected around the release extent at the ground surface (depth of 0 feet bgs) to assess the lateral extent of the release.

RDX Federal 21 #041 & #042

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The preliminary soil samples from the two incidents were field screened for TPH using PetroFLAG[®] and chloride using the Mohr titration method. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figures 2 and 3, respectively.

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

Laboratory analytical results for all Site assessment soil samples from the two releases indicated all COC concentrations were in compliance with the Closure Criteria; however, second depths within the release extent were still required for the RDX Federal 21 #042 release. The lateral extent of the release for RDX Federal 21 #041 was defined by soil samples SS01 through SS04, and the vertical extent of the release was defined by soil sample SS05. The lateral extent of the release for RDX Federal 21 #042 was defined by soil sample SS07.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

Beginning on August 14, 2023, Ensolum personnel were at the Site to oversee delineation activities of RDX Federal 21 #042. Two boreholes (PH01 and PH02) were advanced via backhoe within the release extent to assess the vertical extent of the release. Delineation soil samples were collected from each pothole at depths ranging from 1-foot to 3 feet bgs. Soil from the potholes was field screened for TPH and chloride. Field screening results and observations for the potholes were logged on lithologic soil sampling logs, which are included in Appendix C. The pothole and delineation soil sample locations are depicted on Figure 3.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 and PH02 indicated all COC concentrations were compliant with the Closure Criteria and compliant with the reclamation standards in samples collected in the off-pad road area from the top 4 feet of the subsurface.

Upon completion of delineation activities, identified waste-containing soil was excavated from the release areas as indicated by visible staining, laboratory analytical results for the preliminary soil samples, and field screening results for the delineation soil samples. Excavation activities were performed using a backhoe and transport vehicles. The excavation occurred on-pad, in the pasture area south of the pad, and across the road southwest of the pad. To direct excavation activities, soil was screened for TPH and chloride. The excavation was completed to depths ranging from 0.5-feet to 4 feet bgs. Photographic documentation of the excavation activities is included in Appendix D.

Following removal of waste-containing soil, 5-point composite soil samples were collected at least every 200 square feet from the floor of the excavation. 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. Composite soil samples from the two excavations included:

- RDX Federal 21 #041: Floor soil samples FS01 through FS21 collected at depths ranging from 0.5 feet to 4 feet bgs. Sidewall soil samples SW05 and SW06 at depths ranging from the ground surface to 1-foot bgs and 2 feet bgs, respectively.
- RDX Federal 21 #042: Floor soil samples FS22 through FS48 collected at depths ranging from 0.5 feet to 4 feet bgs. Sidewall soil samples SW01 through SW04 and SW07 collected at depths ranging from the ground surface to 4 feet bgs.

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The excavation extents and excavation soil sample locations are presented on Figures 4 and 5, respectively.

Laboratory analytical results for excavation sidewall samples SW01 through SW04, SW07 and excavation floor samples FS01 through FS06 and FS08 through FS48 indicated all COC concentrations were compliant with the Closure Criteria and compliant with the reclamation requirement. Chloride concentrations in floor soil sample FS07 and sidewall soil sample SW06 exceeded the reclamation requirement and as such, additional waste-containing soil was excavated and the resampled locations indicated all COC concentrations were compliant with the Closure Criteria and reclamation requirement. Laboratory analytical results are summarized in Tables 2 through 4 and laboratory analytical reports are included as Appendix E.

The RDX Federal 21 #041 excavation area measured approximately 4,267 square feet. A total of approximately 140 cubic yards of waste-containing soil was removed during the excavation. The soil was transported and properly disposed of at the R360 Red Bluff Facility in New Mexico. The RDX Federal 21 #042 excavation area measured approximately 5,097 square feet. A total of approximately 400 cubic yards of waste-containing soil was removed during the excavation. The soil was transported and properly disposed of at the R360 Red Bluff Facility in New Mexico.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the February 2022 flare fire and the July 2023 release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extents, indicated all COC concentrations were compliant with the Site Closure Criteria and compliant with the reclamation requirement, where applicable. Based on soil sample analytical results, no further remediation was required. WPX will backfill the excavations with material purchased locally and recontour the Site to match existing Site conditions. The disturbed pasture area will be re-seeded with an approved BLM seed mixture.

Excavation of waste-containing soil has mitigated adverse effects at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. WPX believes these remedial actions are protective of human health, the environment, and groundwater. As such, WPX respectfully requests closure for Incident Numbers nAPP2305933356 and nAPP2320173651.

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 Engineer

Daniel R. Moir, PG Senior Managing Geologist

RDX Federal 21 #041 & #042

E N S O L U M

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations (RDX Federal 21 #041)
Figure 3	Delineation Soil Sample Locations (RDX Federal 21 #042)
Figure 4	Excavation Soil Sample Locations (RDX Federal 21 #041)
Figure 5	Excavation Soil Sample Locations (RDX Federal 21 #042)
Table 1	Delineation Soil Samples (RDX Federal 21 #041 & 42)
Table 2	Confirmation Soil Samples (RDX Federal 21 #041)
Table 3	Confirmation Soil Samples (RDX Federal 21 #042)
Table 4	Confirmation Sidewall Soil Samples (RDX Federal 21 #041 & #042)
Appendix A Appendix B Appendix C Appendix D	Form C-141 Referenced Well Records Lithologic Soil Sampling Logs Photographic Log Laboratory Analytical Reports & Chain-of-Custody Documentation

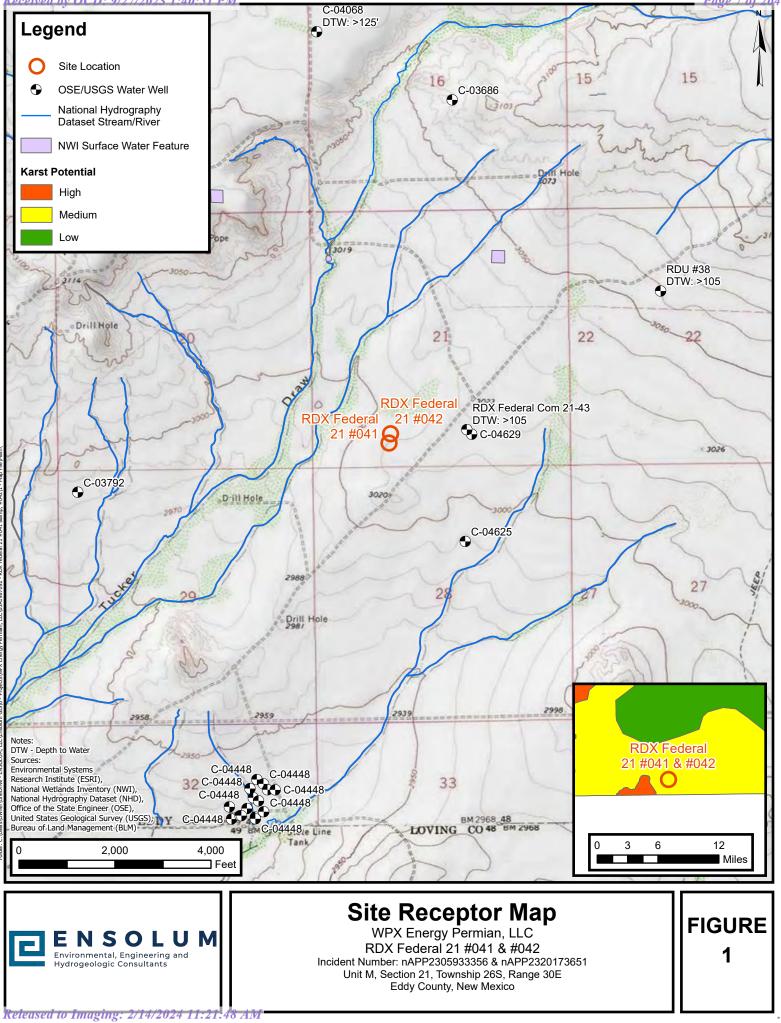
- Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix F NMOCD Correspondence



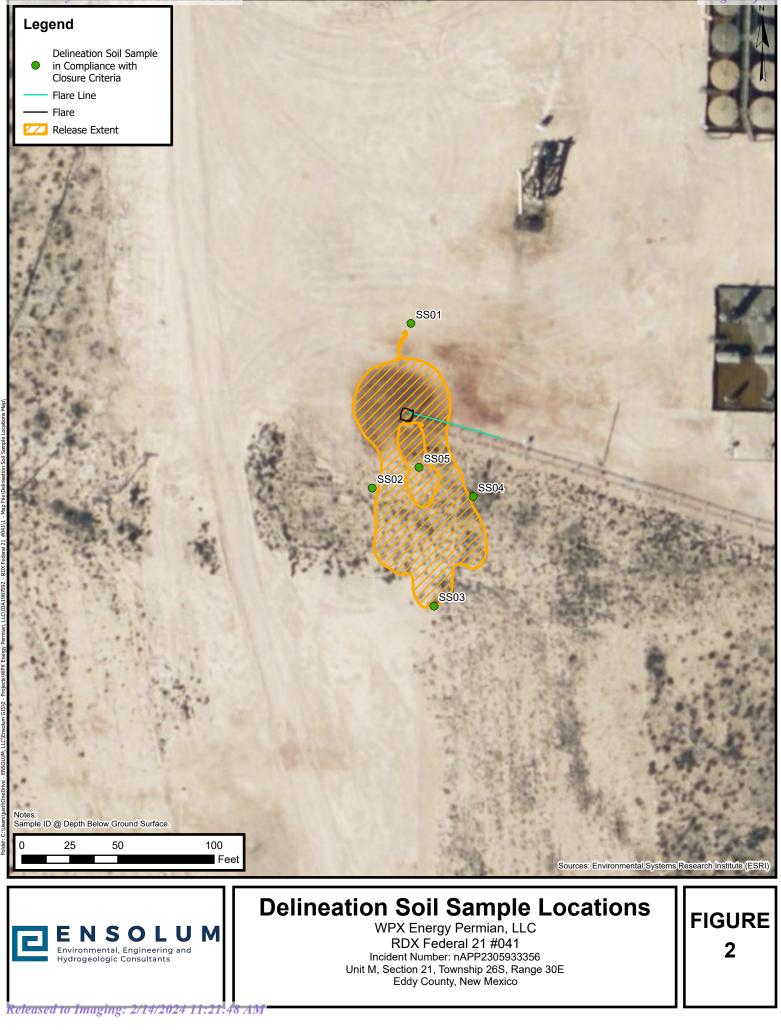
FIGURES

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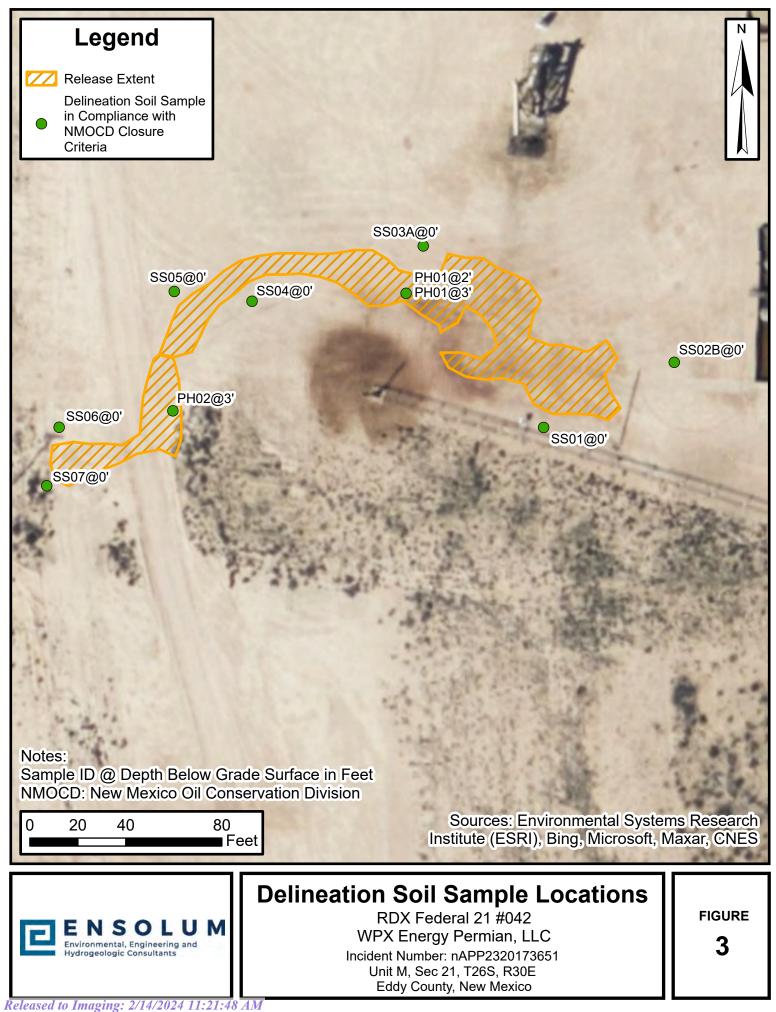
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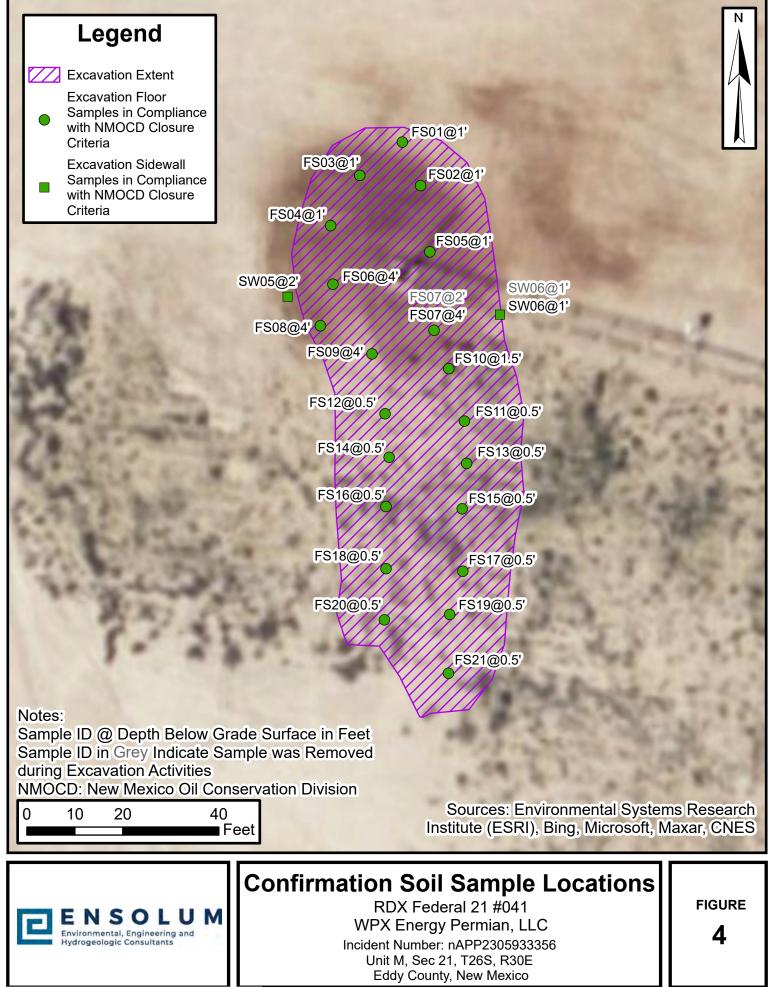


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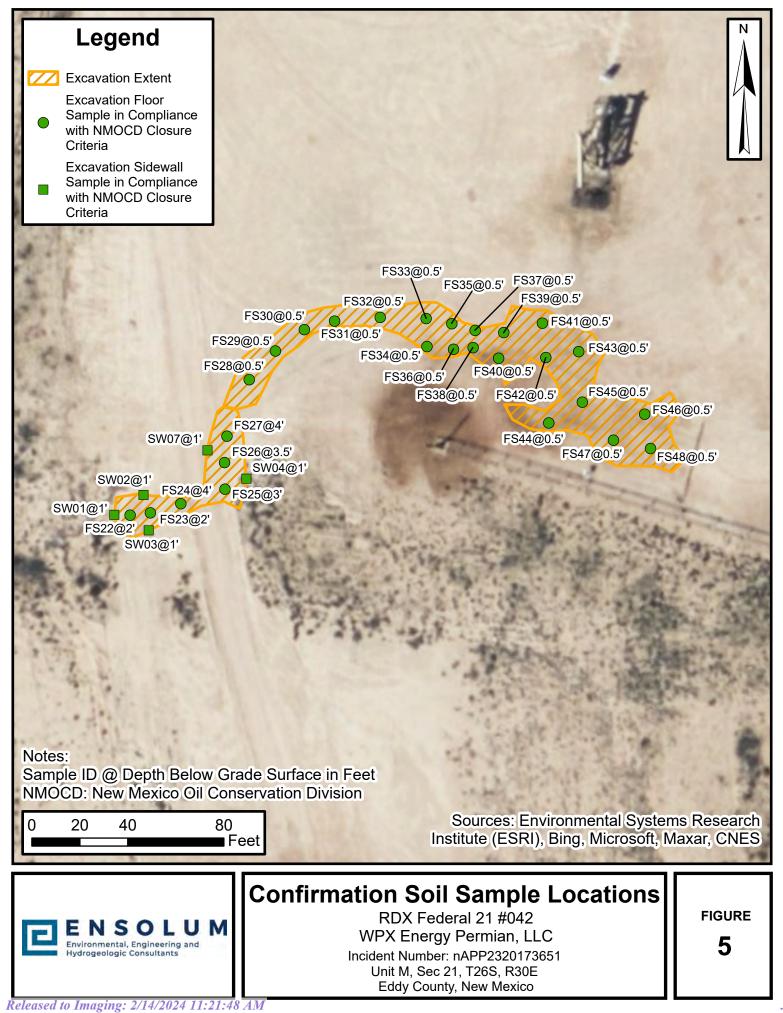


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TABLES

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				RDX Federal 2 WPX	TABLE 1 LE ANALYTIC 1 #041 & RDX Energy Permia County, New	Federal 21 #04 an, LLC	12			
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 C	Closure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delineation Soi	I Samples (RDX	Federal 21 #04	1)			
SS01	03/30/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	250
SS02	03/30/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	<40.0
SS03	03/30/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	<40.0
SS04	03/30/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	<40.0
SS05	03/30/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	<40.0
				Delineation Soi	l Samples (RDX	Federal 21 #04	2)			
SS01	08/14/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	191
SS02B	08/14/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	186
SS03A	08/14/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	145
SS04	08/14/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	268
SS05	08/14/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	201
SS06	08/14/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	215
SS07	08/14/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	27.7
			De	lineation Pothole	Soil Samples (RDX Federal 21	#042)			
PH01	08/14/2023	2	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	742
PH01	08/14/2023	3	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	567
PH02	08/14/2023	3	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	69.1

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon NMAC: New Mexico Administrative Code

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

Grey text indicates soil sample removed during excavation activities

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				RDX Federal 2 WPX	TABLE 2 LE ANALYTIC 1 #041 & RDX Energy Permia County, New	Federal 21 #04 an, LLC	12			
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
				Confirmation So	il Samples (RD	X Federal 21 #04	1)		1	
FS01	08/15/2023	1	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	1,030
FS02	08/15/2023	1	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	1,150
FS03	08/15/2023	1	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	2,760
FS04	08/15/2023	1	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	1,560
FS05	08/15/2023	1	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	2,250
FS06	08/18/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	372
FS07	08/16/2023	2	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	917
FS07	09/06/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	353
FS08	08/18/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	359
FS09	08/18/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	494.0
FS10	08/15/2023	15	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	598
FS11	08/15/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	89.7
FS12	08/15/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	<40.0
FS13	08/15/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	21.4
FS14	08/15/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	<40.0
FS15	08/15/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	<40.0
FS16	08/15/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	<40.0
FS17	08/15/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	<40.0
FS18	08/15/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	<40.0
FS19	08/15/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	<40.0
FS20	08/15/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	<40.0
FS21	08/15/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	109

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

requirement where applicable.

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TABLE 3 SOIL SAMPLE ANALYTICAL RESULTS RDX Federal 21 #041 & RDX Federal 21 #042 WPX Energy Permian, LLC Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Confirmation So	il Samples (RD	X Federal 21 #04	12)			
FS22	08/15/2023	2	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	113
FS23	08/15/2023	2	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	382
FS24	08/16/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	329
FS25	08/17/2023	3	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	447
FS26	08/17/2023	3.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	364
FS27	08/17/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	392
FS28	08/18/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	6,600
FS29	08/18/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	4,520
FS30	08/18/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	1,730
FS31	08/18/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	9,100
FS32	08/18/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	9,990
FS33	08/18/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	16,400
FS34	08/18/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	6,870
FS35	08/18/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	4,940
FS36	08/18/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	3,040
FS37	08/18/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	2,040
FS38	08/18/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	2,200
FS39	08/18/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	5,380
FS40	08/18/2023	0.5	<0.025	<0.025	<20.0	27.0	<50.0	27.0	27.0	6,730

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation NMAC: New Mexico Administrative Code requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text indicates soil sample removed during excavation activities

E N S O L U M

	TABLE 3 CONT'D SOIL SAMPLE ANALYTICAL RESULTS RDX Federal 21 #041 & RDX Federal 21 #042 WPX Energy Permian, LLC Eddy County, New Mexico									
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Confirmation So	il Samples (RD)	X Federal 21 #04	12)	1	•	•
FS41	08/18/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	4,780
FS42	08/18/2023	0.5	<0.025	<0.025	<20.0	30.8	<50.0	30.8	30.8	6,110
FS43	08/18/2023	0.5	<0.025	<0.025	<20.0	463	337	463	800	6,500
FS44	08/18/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	7,630
FS45	08/18/2023	0.5	<0.025	<0.025	<20.0	108	78.5	108	187	18,600
FS46	08/18/2023	0.5	<0.025	<0.025	<20.0	94.3	85.0	94.0	179.3	538
FS47	08/18/2023	0.5	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	18,700

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation NMAC: New Mexico Administrative Code requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text indicates soil sample removed during excavation activities

.

ENSOLUM

	TABLE 4 SOIL SAMPLE ANALYTICAL RESULTS RDX Federal 21 #041 & RDX Federal 21 #042 WPX Energy Permian, LLC Eddy County, New Mexico									
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
			Con	firmation Sidewa	II Soil Samples	(RDX Federal 2	1 #042)		•	•
SW01	08/15/2023	1	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	220
SW02	08/16/2023	1	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	260
SW03	08/15/2023	1	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	98.4
SW04	08/17/2023	2	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	38.2
SW07	08/17/2023	1	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	50.5
	Confirmation Sidewall Soil Samples (RDX Federal 21 #041)									
SW05	08/18/2023	2	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	400
SW06	08/16/2023	4	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	841
SW06	09/06/2023	1	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	88.8

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Form C-141

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

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

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Incident ID	nAPP2305933356
District RP	
Facility ID	
Application ID	

Responsible Party

Responsible Party WPX Energy Permain, LLC	OGRID 246289
Contact Name Jim Raley	Contact Telephone 575-689-7597
Contact email Jim.Raley@dvn.com	Incident # (assigned by OCD) nAPP2305933356
Contact mailing address 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.0223007

Longitude <u>-103.8916702</u> (NAD 83 in decimal degrees to 5 decimal places)

Site Name: RDX FEDERAL 21 #041	Site Type Oil Well
Date Release Discovered: 02/20/2023	API# (if applicable) 30-015-41269

Unit Letter	Section	Township	Range	County
М	21	26S	30E	Eddy

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Crude Oil	Volume Released (bbls) 1	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

 $bbl \ estimate = \frac{saturated \ soil \ volume \ (ft^{\frac{3}{2}})}{4.21(\frac{ft^{3}}{bbl \ equivalent})} * \ estimated \ soil \ porosity(\%) + recovered \ fluids \ (bbl)$

Received l	<i>by <mark>ОСD</mark>:</i>	9/27/2023	1:40:51 PM	ate of New	Mexico
101111 C^{-1}	41				IVICATOO

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? Small fire developed at base of flare from fluids.
🛛 Yes 🗌 No	
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? nd Rosa Romero on 02/27/2023

Initial Response

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

 \boxtimes The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

 \boxtimes All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: __Jim Raley_____ Title: __Environmental Professional_____

Signature: _____ Date: _____ Date: _____2/28/2023_____

email: ___jim.raley@dvn.com_____

Telephone: 575-689-7597

OCD Only

Received by: Jocelyn Harimon

Date:	02/28/2023
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Received by OCD: 9/27/2023 1:40:51 PM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

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Incident ID	nAPP2305933356
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>105 (</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?	🗌 Yes 🛛 No
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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- \boxtimes 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.

	1:40:51 PM State of New Mexico		Page 22 of
		Incident ID	nAPP2305933356
ige 4	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
regulations all operators are requ public health or the environment. failed to adequately investigate a addition, OCD acceptance of a C and/or regulations. Printed Name: <u>James Raley</u> Signature: <u>Fig. Ref.</u>	Date: <u>09/2</u>	perform corrective actions for re relieve the operator of liability s vater, surface water, human healt for compliance with any other f ironmental Professional 21/2023	leases which may endanger hould their operations have h or the environment. In
email: jim.raley@dvn.com OCD Only	Telephone	: <u>575-689-7597</u>	
Received by:	Dat	e:	

Page 6

Oil Conservation Division

Incident ID	nAPP2305933356
District RP	
Facility ID	
Application ID	

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Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: James Raley Title: Environmental Professional Signature: _____ _____ Date: <u>09/21/2023</u> email: jim.raley@dvn.com Telephone: 575-689-7597 **OCD Only** Received by: Date: _____ Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: _____ Date: _____ Printed Name: Title:

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

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

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Incident ID	nAPP2320173651
District RP	
Facility ID	
Application ID	

Responsible Party

Responsible Party WPX Energy Permian, LLC	OGRID 246289
Contact Name Jim Raley	Contact Telephone 575-689-7597
Contact email Jim.Raley@dvn.com	Incident # (assigned by OCD) nAPP2320173651
Contact mailing address 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude _____32.0224686_

Longitude ____-103.889541____ (NAD 83 in decimal degrees to 5 decimal places)

Site Name: RDX FEDERAL 21 #042	Site Type Oil Well
Date Release Discovered: 7/20/2023	API# (if applicable) 30-015-40643

Unit Letter	Section	Township	Range	County
Ν	21	26S	30E	Eddy

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)					
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)			
Produced Water	Volume Released (bbls) 17	Volume Recovered (bbls) 0			
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No			
Condensate	Volume Released (bbls)	Volume Recovered (bbls)			
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)			
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)			
Cause of Release: Below	ground flowline developed leak. Allowing for approx.	1 / bbls of produced water to impact pad surface.			
$bbl estimate = \frac{saturated soil vol}{42V_{est} ft^3}$	$\frac{lume(ft^2)}{3} * estimated soil porosity(\%) + recovered fluids (bbl)$				
4.21(bbl equi	valent'				

D	1
Page	.,

Oil Conservation Division

Incident ID	nAPP2320173651
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🖾 No	
If YES, was immediate ne	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

 \square The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

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Printed Name: ___Jim Raley______ Title: ___Environmental Professional______

Signature: ______ Date: ______ Date: _____/31/2023______

email: ____jim.raley@dvn.com______ Telephone: 575-689-7597_____

OCD Only

Received by: _____ Date: _____

Received by OCD: 9/27/2023 1:40:51 PM Form C-121 State of New Mexico

Page 3

Oil Conservation Division

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Incident ID	nAPP2320173651
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>105 (</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?	🗌 Yes 🛛 No
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 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.

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- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- \boxtimes Boring or excavation logs
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- Laboratory data including chain of custody

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orm C-141	23 1:40:51 PM State of New Mexico	r		Page 27 of
			Incident ID	nAPP2320173651
ige 4	Oil Conservation Division	-	District RP	
			Facility ID	
			Application ID	
regulations all operators are r public health or the environm failed to adequately investiga	D	ions and perform cor does not relieve the groundwater, surfac onsibility for compli- itle: <u>Environmental</u> ate: <u>09/21/2023</u>	rective actions for rel operator of liability sl e water, human healtl ance with any other for <u>l Professional</u>	eases which may endanger nould their operations have h or the environment. In
OCD Only Received by:		Date:		

Oil Conservation Division

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 ite	rms must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11	NMAC
Photographs of the remediated site prior to backfill or photos of 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	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 a	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
OCD Only	
Received by:	Date:
	f liability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible r regulations.
Closure Approved by:	Date:
Printed Name:	Title:



APPENDIX B

Well Record

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		HR							MONITORING W	ELL COMPLETION	N DIAGRAM		
				IAN	C E		Boring/Well Number: MW-1			Location: RDX Federal Com 21-43			
		S O	LUI		NS		Date:			Client:			
Drilling Me	-4h - 4h	0.0	C	Matha di			I d Dev		9/2020		WPX Energy		
U	Air Rotar	v	Sampling I		one		Logged By:		nn, P.G.	Drilled By: Talon L	PE		
Gravel Pack		9	Gravel Pac	ck Depth Inte			Seal Type:	0.1211	Seal Depth Interval:	Latitude:	12		
	0/20 Sar	nd			lags			lone	None	32.0225	2571		
Casing Typ	be:	Diameter:		Depth Inter			Boring Tota	al Depth (ft. Bo		Longitude:	0.4271		
PVC Screen Typ		2-inch Slot:		0-100 fe Diameter:		Interval:	Wall Total	l Depth (ft. BGS	10	-103.884 Depth to Water (ft. BTOC):	371 DTW Date:		
PVC		0.010-ii	nch	2-inch	-	105 ft	well Iotai		05	> 105	12/16/2020		
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Litholog	Lithology/Remarks C			
0 5 10 15	NM	L	D	N	N	NM	SP	NS	Pale orange to tan poorly graded fine sand		-		
20	NM	Н	D	N	Ν	NM	CL	NS	Pale orange/tan/pale red clay, dry, with silt, fine sand, and minor caliche				
25 30 35 40 45	NM	L	D	N	N	NM	SP	NS	Pale orange to pale red poorly graded fine sand		- - -		
50 55 60	NM	L	D	N	N	NM	SP	NS	Golden yellow poorly graded fine sand with minor silt and clay				
65 70 75	NM	L	D	N	N	NM	SP	NS	Pale orange to pale red poorly graded fine sand with minor silt/clay				
80 85 90	NM	М	D	N	N	NM	SC	NS	Buff to orange color fine sand with medium sand and clay				
95	NM	Н	D	N	N	NM	CL	NS	Brown orange clay w	rith silt and fine sand	†		
100	NM	Н	D	N	N	NM	SC	NS	Golden yellow and buff colored clay with fine sand - TD Boring: 110' BGS; Sand 110' -				
105									tine sand - 1D Boring: 110 BGS; Sand 110 105' BGS				



APPENDIX C

Lithologic Soil Sampling Logs

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ENSOLUM Site Name: RDX Federal 21 #042 Incident Number: nAPP2320173651 Job Number: 03A1987093 LITHOLOGIC / SOIL SAMPLING LOG Logged By: Cole Burton Method: Coordinates: 32.02229, -103.88968 Hole Diameter: 3' Total Depth: 3'									Sample Name: PH01	Date: 8/14/23
Job Number: 03A1987093 Job Number: 03A1987093 Job Number: 03A1987093 LITHOLOGIC / SOIL SAMPLING LOG Logged By: Cole Burton Method: Coordinates: 32.02229, -103.88968 Hole Diameter: 3' Total Depth: 3' Comments: Field screening conducted with the MOHR titration method for chloride. Chloride test performed with 1:1 dilution fails oil to distilled water. No correction factors included. and big field water. No correction factors included. With the MOHR titration method for chloride. Chloride test performed with 1:1 dilution fails of the distilled water. No correction factors included. and big field water. No correction factors included. With the distilled water. No correction factors included. Depth (ft bgs) Depth (ft bgs	1				C					
Job Number: 03A1987093 LITHOLOGIC / SOIL SAMPLING LOG Logged By: Cole Burton Method: Coordinates: 32.02229, -103.88968 Total Depth: 3' Comments: Field screening conducted with the MOHR titration method for chloride. Chloride test performed with 1:1 dilution fait soil to distilled water. No correction factors included. and the distilled water. No correction factors included. With distilled water. No correction factors included. With distilled water. No correction factors included. With distilled water. No correction factors included. W Y PH01 Depth (ft bgs) Y Pepth (ft bgs) Y Pepth (ft bgs) Y Pepth (ft bgs) Y PH01 O CCHE Caliche, Light brown, Staining, Odor D N PH01 1 1 CCHE Caliche, Light brown, Some sand, No stai D 600 N PH01 2 2 SP-SM Sand w/ some silt, Light brown, Poorly gr. D 550 N PH01 3 3 SP-SM SAA				IN	>					
LITHOLOGIC / SOIL SAMPLING LOG Logged By: Cole Burton Method: Coordinates: 32.02229, -103.88968 Hole Diameter: 3' Total Depth: 3' Comments: Field screening conducted with the MOHR titration method for chloride. Chloride test performed with 1:1 dilution factors included. and to distilled water. No correction factors included. Depth (ft bgs) Depth (ft bgs) Depth (ft bgs) Depth (ft bgs) CCHE Caliche, Light brown, Staining, Odor M V PH01 1 1 CCHE Caliche, Light brown, Some sand, No stai D 600 N PH01 2 2 SP-SM Sand w/ some silt, Light brown, Poorly gr. D 550 N PH01 3 3 SP-SM Sand w/ some silt, Light brown, Poorly gr.										
Coordinates: 32.02229, -103.88968 Total Depth: 3' Coordinates: 32.02229, -103.88968 Hole Diameter: 3' Total Depth: 3' Coordinates: 32.02229, -103.88968 Hole Diameter: 3' Total Depth: 3' Comments: Field screening conducted with the MOHR titration method for chloride. Chloride test performed with 1:1 dilution fassified water. No correction factors included. and a sign of a	LITHOLOGIC / SOIL SAMPLING LOG									Method:
soil to distilled water. No correction factors included. ant sign b C C C Depth (ft bgs)									Hole Diameter: 3'	Total Depth: 3'
MYPH010CCHECaliche, Light brown, Staining, OdorDNPH0111CCHECaliche, Light brown, Some sand, No staiD600NPH0122SP-SMSand w/ some silt, Light brown, Poorly gradedD550NPH0133SP-SMSand w/ some silt, Light brown, Poorly graded	Comments: Field screening conducted with the MOHR titration method for chloride. Chloride test performed with 1:1 dilution factor of									
DNPH011-CCHECaliche, Light brown, Staming, OdorD600NPH0122SP-SMSand w/ some silt, Light brown, Poorly graderD550NPH0133SP-SMSand w/ some silt, Light brown, Poorly grader										
D 600 N PH01 2 2 SP-SM Sand w/ some silt, Light brown, Poorly graded D 550 N PH01 3 3 SP-SM SAA	Μ			Y	PH01	0	0	CCHE	Caliche, Light bro	wn, Staining, Odor
D 550 N PH01 3 3 SP-SM SAA	D			N	PH01	- 1 -		ССНЕ		-
	D	600		Ν	PH01	2	2	SP-SM	Sand w/ some silt, Ligh	nt brown, Poorly graded
Total Depth 3'	D	550		N	PH01	3				AA
							Tot	al Depth	13'	

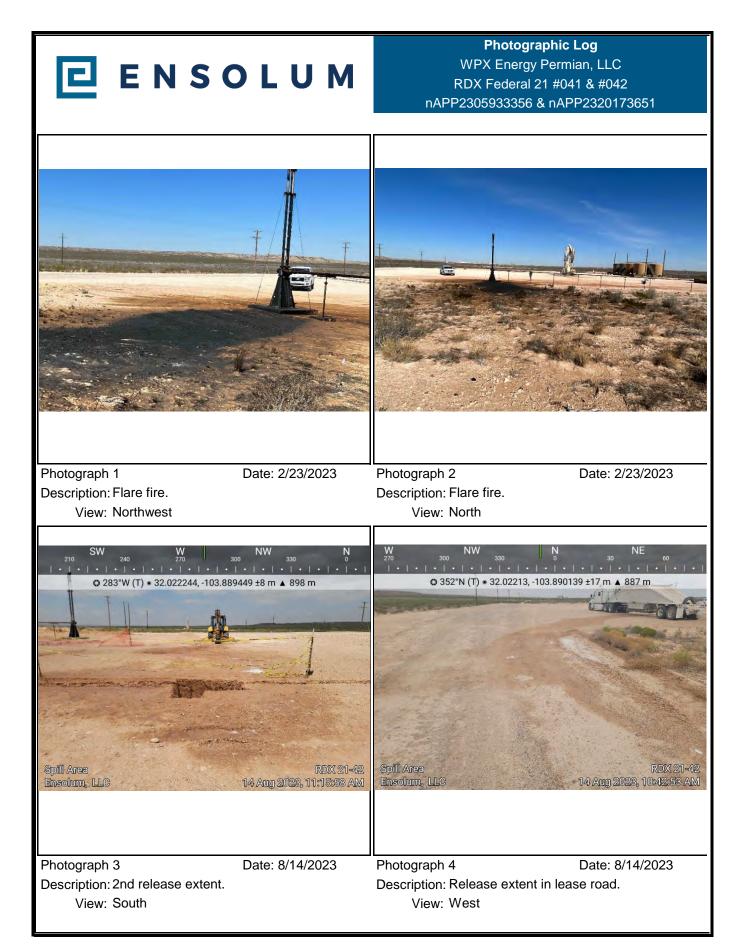
•

								Sample Name: PH02	Date: 8/14/23	
			NI	C	ΟΙ		R A	Site Name: RDX Federal 21 #04		
				3		Incident Number: nAPP2320173651				
						Job Number: 03A1987093				
		lithol	OGI	C / SOIL S	SAMPLING		Logged By: Cole Burton	Method:		
	inates: 32							Hole Diameter: 3'	Total Depth: 3'	
	Comments: Field screening conducted with the MOHR titration method for chloride. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic	Descriptions	
Μ			Y	PH02	0	0	CCHE	Caliche, Light bro	own, Staining, Odor	
м			N	PH02	1	- - - 1 -	SP-SM	Sand w/ some silt, Lig	ht brown, Poorly graded	
М			Ν	PH02	2	2	SP-SM	S	ĀA	
D	200		N	PH02	3	3	SP-SM	s	AA	
	Total Depth 3'									
Total Depth 3'										



APPENDIX D

Photographic Log





Photographic Log WPX Energy Permian, LLC RDX Federal 21 #041 & #042 nAPP2305933356 & nAPP2320173651







APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation





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

Devon Energy - Carlsbad

Project Name: RDX

RDX Federal 21 #041

Work Order: E304001

Job Number: 01058-0007

Received: 4/3/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/6/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 4/6/23

Jerrod Inskeep 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: RDX Federal 21 #041 Workorder: E304001 Date Received: 4/3/2023 8:00:00AM

Jerrod Inskeep,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/3/2023 8:00:00AM, under the Project Name: RDX Federal 21 #041.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #041 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

Field Offices:

Southern New Mexico Area Lynn Jarboe Technical Representative/Client Services

Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@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

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

Envirotech Web Address: www.envirotech-inc.com



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k	eceived by OCD: 9/27/2023 1:40:51 PM			Page	43 of 264
		Sample Sum	mary		
Γ	Devon Energy - Carlsbad	Project Name:	RDX Federal 21 #041	Reported:	
	6488 7 Rivers Hwy	Project Number:	01058-0007	Reporteu:	
	Artesia NM, 88210	Project Manager:	Jerrod Inskeep	04/06/23 13:59	

Client Sample ID Lab Sample II	D Matrix	Sampled	Received	Container
SS01-0' E304001-01A	Soil	03/30/23	04/03/23	Glass Jar, 2 oz.
SS02-0' E304001-02A	Soil	03/30/23	04/03/23	Glass Jar, 2 oz.
SS03-0' E304001-03A	Soil	03/30/23	04/03/23	Glass Jar, 2 oz.
SS04-0' E304001-04A	Soil	03/30/23	04/03/23	Glass Jar, 2 oz.
SS05-0.5' E304001-05A	Soil	03/30/23	04/03/23	Glass Jar, 2 oz.
BG01-1' E304001-06A	Soil	03/30/23	04/03/23	Glass Jar, 2 oz.



Sample Data											
Devon Energy - Carlsbad	Project Nam	e: RD2	K Federal 21	#041							
6488 7 Rivers Hwy	Project Num		58-0007			Reported:					
Artesia NM, 88210	Project Mana	ager: Jerro	od Inskeep			4/6/2023 1:59:10PM					
SS01-0'											
		E304001-01									
		Reporting									
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes					
Volatile Organic Compounds by EPA 8260B	Batch: 2313098										
Benzene	ND	0.0250	1	04/03/23	04/04/23						
Ethylbenzene	ND	0.0250	1	04/03/23	04/04/23						
Toluene	ND	0.0250	1	04/03/23	04/04/23						
o-Xylene	ND	0.0250	1	04/03/23	04/04/23						
o,m-Xylene	ND	ND 0.0500 1		04/03/23	04/04/23						
Total Xylenes	ND	0.0250	1	04/03/23	04/04/23						
Surrogate: Bromofluorobenzene		91.3 %	70-130	04/03/23	04/04/23						
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	04/03/23	04/04/23						
Surrogate: Toluene-d8		104 %	70-130	04/03/23	04/04/23						
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: SL		Batch: 2313098					
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/23	04/04/23						
Surrogate: Bromofluorobenzene		91.3 %	70-130	04/03/23	04/04/23						
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	04/03/23	04/04/23						
Surrogate: Toluene-d8		104 %	70-130	04/03/23	04/04/23						
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: JL		Batch: 2314032					
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/23	04/05/23						
Dil Range Organics (C28-C36)	ND	50.0	1	04/05/23	04/05/23						
Surrogate: n-Nonane		105 %	50-200	04/05/23	04/05/23						
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: RAS		Batch: 2314020					
Chloride	250	20.0	1	04/04/23	04/04/23						



	5	ample D	ala			
Devon Energy - Carlsbad	Project Name: RDX Federal 21 #041					
6488 7 Rivers Hwy	Project Numb	Project Number: 01058-0007				Reported:
Artesia NM, 88210	Project Manag	ger: Jerro	od Inskeep	4/6/2023 1:59:10PM		
		SS02-0'				
		E304001-02				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: SL		Batch: 2313098
Benzene	ND	0.0250	1	04/03/23	04/04/23	
Ethylbenzene	ND	0.0250	1	04/03/23	04/04/23	
Toluene	ND	0.0250	1	04/03/23	04/04/23	
-Xylene	ND	0.0250	1	04/03/23	04/04/23	
,m-Xylene	ND	0.0500	1	04/03/23	04/04/23	
Total Xylenes	ND	0.0250	1	04/03/23	04/04/23	
Surrogate: Bromofluorobenzene		90.3 %	70-130	04/03/23	04/04/23	
urrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	04/03/23	04/04/23	
urrogate: Toluene-d8		104 %	70-130	04/03/23	04/04/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	ŀ	Analyst: SL		Batch: 2313098
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/23	04/04/23	
Surrogate: Bromofluorobenzene		90.3 %	70-130	04/03/23	04/04/23	
urrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	04/03/23	04/04/23	
urrogate: Toluene-d8		104 %	70-130	04/03/23	04/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: JL		Batch: 2314032
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/23	04/05/23	
Dil Range Organics (C28-C36)	ND	50.0	1	04/05/23	04/05/23	
Surrogate: n-Nonane		101 %	50-200	04/05/23	04/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2314020
Chloride	ND	40.0	2	04/04/23	04/04/23	



	D	ample D	ata			
Devon Energy - Carlsbad	Project Name:	RDY	K Federal 21	#041		
6488 7 Rivers Hwy	Project Number: 01058-0007					Reported:
Artesia NM, 88210	Project Manag	ger: Jerro	od Inskeep		4/6/2023 1:59:10PM	
		SS03-0'				
		E304001-03				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: SL		Batch: 2313098
Benzene	ND	0.0250	1	04/03/23	04/04/23	
Ethylbenzene	ND	0.0250	1	04/03/23	04/04/23	
Toluene	ND	0.0250	1	04/03/23	04/04/23	
p-Xylene	ND	0.0250	1	04/03/23	04/04/23	
o,m-Xylene	ND	0.0500	1	04/03/23	04/04/23	
Fotal Xylenes	ND	0.0250	1	04/03/23	04/04/23	
Surrogate: Bromofluorobenzene		89.4 %	70-130	04/03/23	04/04/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	04/03/23	04/04/23	
Surrogate: Toluene-d8		103 %	70-130	04/03/23	04/04/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	analyst: SL		Batch: 2313098
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/23	04/04/23	
Surrogate: Bromofluorobenzene		89.4 %	70-130	04/03/23	04/04/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	04/03/23	04/04/23	
Surrogate: Toluene-d8		103 %	70-130	04/03/23	04/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2314032
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/23	04/05/23	
Dil Range Organics (C28-C36)	ND	50.0	1	04/05/23	04/05/23	
Surrogate: n-Nonane		114 %	50-200	04/05/23	04/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: RAS		Batch: 2314020
Chloride	ND	20.0	1	04/04/23	04/04/23	



	5	ample D	ara				
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Project Numbo Project Manag	er: 0105	K Federal 21 58-0007 od Inskeep		Reported: 4/6/2023 1:59:10PM		
- Hooke F(H), 002 F0	i iojeet munug		ou misiceep				
		SS04-0'					
		E304001-04					
		Reporting					
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	analyst: SL		Batch: 2313098	
Benzene	ND	0.0250	1	04/03/23	04/04/23		
Ethylbenzene	ND	0.0250	1	04/03/23	04/04/23		
Toluene	ND	0.0250	1	04/03/23	04/04/23		
p-Xylene	ND	0.0250	1	04/03/23	04/04/23		
o,m-Xylene	ND	0.0500	1	04/03/23	04/04/23		
Total Xylenes	ND	0.0250	1	04/03/23	04/04/23		
Surrogate: Bromofluorobenzene		90.6 %	70-130	04/03/23	04/04/23		
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	04/03/23	04/04/23		
Surrogate: Toluene-d8		104 %	70-130	04/03/23	04/04/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	analyst: SL		Batch: 2313098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/23	04/04/23		
Surrogate: Bromofluorobenzene		90.6 %	70-130	04/03/23	04/04/23		
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	04/03/23	04/04/23		
Surrogate: Toluene-d8		104 %	70-130	04/03/23	04/04/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	analyst: JL		Batch: 2314032	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/23	04/05/23		
Dil Range Organics (C28-C36)	ND	50.0	1	04/05/23	04/05/23		
Surrogate: n-Nonane		113 %	50-200	04/05/23	04/05/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: RAS		Batch: 2314020	
Chloride	ND	20.0	1	04/04/23	04/04/23		



	5	ample D	ata					
Devon Energy - Carlsbad	Project Name	5						
6488 7 Rivers Hwy	Project Number: 01058-0007						Reported:	
Artesia NM, 88210	Project Mana	ger: Jerro	od Inskeep		4/6/2023 1:59:10PM			
		SS05-0.5'						
		E304001-05						
		Reporting						
Analyte	Result	Limit	Dilut	tion Pre	epared	Analyzed	Notes	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: SL			Batch: 2313098	
Benzene	ND	0.0250	1	04/	/03/23	04/04/23		
Ethylbenzene	ND	0.0250	1	04/	/03/23	04/04/23		
Toluene	ND	0.0250	1	04/	/03/23	04/04/23		
p-Xylene	ND	0.0250	1	04/	/03/23	04/04/23		
p,m-Xylene	ND	0.0500	1	04/	/03/23	04/04/23		
Total Xylenes	ND	0.0250	1	04/	/03/23	04/04/23		
Surrogate: Bromofluorobenzene		89.8 %	70-130	04/	/03/23	04/04/23		
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	04/	/03/23	04/04/23		
Surrogate: Toluene-d8		103 %	70-130	04/	/03/23	04/04/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: SL			Batch: 2313098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/	/03/23	04/04/23		
Surrogate: Bromofluorobenzene		89.8 %	70-130	04/	/03/23	04/04/23		
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	04/	/03/23	04/04/23		
Surrogate: Toluene-d8		103 %	70-130	04/	/03/23	04/04/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL			Batch: 2314032	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/	/05/23	04/05/23		
Dil Range Organics (C28-C36)	ND	50.0	1	04/	/05/23	04/05/23		
Surrogate: n-Nonane		113 %	50-200	04/	/05/23	04/05/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: RAS			Batch: 2314020	
Chloride	ND	100	5	04/	/04/23	04/05/23		



	5	ample D	ata			
Devon Energy - Carlsbad	Project Name					
6488 7 Rivers Hwy	Project Number: 01058-0007					Reported:
Artesia NM, 88210	Project Manag	ger: Jerro	od Inskeep	4/6/2023 1:59:10PM		
		BG01-1'				
		E304001-06				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: SL		Batch: 2313098
Benzene	ND	0.0250	1	04/03/23	04/04/23	
Ethylbenzene	ND	0.0250	1	04/03/23	04/04/23	
Toluene	ND	0.0250	1	04/03/23	04/04/23	
p-Xylene	ND	0.0250	1	04/03/23	04/04/23	
o,m-Xylene	ND	0.0500	1	04/03/23	04/04/23	
Total Xylenes	ND	0.0250	1	04/03/23	04/04/23	
Surrogate: Bromofluorobenzene		90.5 %	70-130	04/03/23	04/04/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	04/03/23	04/04/23	
Surrogate: Toluene-d8		104 %	70-130	04/03/23	04/04/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: SL		Batch: 2313098
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/23	04/04/23	
Surrogate: Bromofluorobenzene		90.5 %	70-130	04/03/23	04/04/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	04/03/23	04/04/23	
Surrogate: Toluene-d8		104 %	70-130	04/03/23	04/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: JL		Batch: 2314032
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/23	04/05/23	
Dil Range Organics (C28-C36)	ND	50.0	1	04/05/23	04/05/23	
Surrogate: n-Nonane		111 %	50-200	04/05/23	04/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2314020
Chloride	ND	20.0	1	04/04/23	04/04/23	



QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		DX Federal 21 058-0007	#041				Reported:
Artesia NM, 88210		Project Manager:	Jei	rrod Inskeep					4/6/2023 1:59:10PM
			Analyst: SL						
Analyte		Reporting	Spike	Source		Rec		RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313098-BLK1)							Prepared: 04	4/03/23 Ai	nalyzed: 04/03/23
Benzene	ND	0.0250							-
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.476		0.500		95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			
LCS (2313098-BS1)							Prepared: 04	4/03/23 Ai	nalyzed: 04/03/23
Benzene	2.30	0.0250	2.50		92.0	70-130			-
Ethylbenzene	2.47	0.0250	2.50		98.6	70-130			
Toluene	2.38	0.0250	2.50		95.3	70-130			
p-Xylene	2.50	0.0250	2.50		99.9	70-130			
o,m-Xylene	4.93	0.0500	5.00		98.6	70-130			
Fotal Xylenes	7.43	0.0250	7.50		99.0	70-130			
Surrogate: Bromofluorobenzene	0.511	010200	0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			
Matrix Spike (2313098-MS1)				Source: I	2303162-	01	Prenared: 04	4/03/23 A1	nalyzed: 04/03/23
• • /	2.24	0.0250	2.50	ND	89.7	48-131	Tiepureu. o	1/05/25 11	aug2ea. 01/05/25
Benzene	2.24	0.0250	2.50	ND	89.7 95.4	46-131			
Ethylbenzene	2.39	0.0250		ND	95.4 92.3	45-135 48-130			
Toluene		0.0250	2.50						
o-Xylene	2.41	0.0250	2.50	ND	96.4	43-135			
o,m-Xylene	4.74 7.15	0.0500	5.00 7.50	ND ND	94.8 95.3	43-135 43-135			
Total Xylenes		0.0250		ND					
Surrogate: Bromofluorobenzene	0.500		0.500		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			
Matrix Spike Dup (2313098-MSD1)				Source: I			-		nalyzed: 04/03/23
Benzene	2.25	0.0250	2.50	ND	90.0	48-131	0.378	23	
Ethylbenzene	2.44	0.0250	2.50	ND	97.6	45-135	2.26	27	
Toluene	2.35	0.0250	2.50	ND	94.2	48-130	2.04	24	
p-Xylene	2.46	0.0250	2.50	ND	98.5	43-135	2.16	27	
o,m-Xylene	4.87	0.0500	5.00	ND	97.4	43-135	2.71	27	
	7.33	0.0250	7.50	ND	97.8	43-135	2.52	27	
Total Xylenes	0.507		0.500		101	70-130			
Total Xylenes Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4			0.500 0.500		101 100	70-130 70-130			



QC Summary Data

		QC DI		ary Date	•				
Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210		Project Name: Project Number: Project Manager:	0	RDX Federal 21 1058-0007 errod Inskeep	#041				Reported: 4/6/2023 1:59:10PM
	No	onhalogenated O	rganics	by EPA 801	5D - GI	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2313098-BLK1)							Prepared: 0	4/03/23	Analyzed: 04/03/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.476		0.500		95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			
LCS (2313098-BS2)							Prepared: 0	4/03/23	Analyzed: 04/03/23
Gasoline Range Organics (C6-C10)	45.3	20.0	50.0		90.5	70-130			
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			
Matrix Spike (2313098-MS2)				Source: l	E303162-()1	Prepared: 0	4/03/23	Analyzed: 04/03/23
Gasoline Range Organics (C6-C10)	49.4	20.0	50.0	ND	98.8	70-130			
Surrogate: Bromofluorobenzene	0.497		0.500		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			
Matrix Spike Dup (2313098-MSD2)				Source: l	E 303162- ()1	Prepared: 0	4/03/23	Analyzed: 04/03/23
Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.5	70-130	2.33	20	
			0.500		101	70 120			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4	0.503 0.509		0.500 0.500		101 102	70-130 70-130			



QC Summary Data

		QU D	u	ary Data					
Devon Energy - Carlsbad 6488 7 Rivers Hwy		Project Name: Project Number:		RDX Federal 21 01058-0007	#041				Reported:
Artesia NM, 88210		Project Manager:	J	errod Inskeep					4/6/2023 1:59:10PM
	Nonha	alogenated Org	anics by	y EPA 8015I) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2314032-BLK1)							Prepared: 0	4/05/23 A	analyzed: 04/05/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.5		50.0		117	50-200			
LCS (2314032-BS1)							Prepared: 0	4/05/23 A	analyzed: 04/05/23
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132			
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			
Matrix Spike (2314032-MS1)				Source:	E304013-	09	Prepared: 0	4/05/23 A	analyzed: 04/05/23
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	43.7		50.0		87.5	50-200			
Matrix Spike Dup (2314032-MSD1)				Source:	E304013-	09	Prepared: 0	4/05/23 A	analyzed: 04/05/23
Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	38-132	2.62	20	
Surrogate: n-Nonane	48.4		50.0		96.7	50-200			



QC Summary Data

		C	-						
Devon Energy - Carlsbad		Project Name:	I	RDX Federal 2	1 #041				Reported:
6488 7 Rivers Hwy		Project Number	: (01058-0007					•
Artesia NM, 88210		Project Manager	r: J	errod Inskeep					4/6/2023 1:59:10PM
		Anions	by EPA	300.0/90564	4				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2314020-BLK1)							Prepared: 0	4/04/23 <i>A</i>	Analyzed: 04/04/23
Chloride	ND	20.0							
LCS (2314020-BS1)							Prepared: 0	4/04/23 A	Analyzed: 04/04/23
Chloride	246	20.0	250		98.3	90-110			
Matrix Spike (2314020-MS1)				Source:	E304001-0)1	Prepared: 0	4/04/23 A	Analyzed: 04/04/23
Chloride	490	20.0	250	250	95.9	80-120			
Matrix Spike Dup (2314020-MSD1)				Source:	E304001-()1	Prepared: 0	4/04/23 A	Analyzed: 04/04/23
Chloride	525	20.0	250	250	110	80-120	7.02	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.



Γ	Devon Energy - Carlsbad	Project Name:	RDX Federal 21 #041	
	6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
	Artesia NM, 88210	Project Manager:	Jerrod Inskeep	04/06/23 13:59

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Reproject Information

Project li	nformation				Chain o	f Custody												Page	1_of_1_
Project N	RDX Federa Manager: Je	rrod Insk	eep		Bill To Attention: Jim Raley Address: 5315 Buena Vista Dr	Lab WO#			ŧ	ab Use Only Job Number OLOSS-0007 Analysis and Metho			F700	TAT 1D 2D 3D Standard x			EPA P CWA	SDWA	
<u>City, Sta</u> Phone: Email:	te, Zip: Carls 505-382-1 jerrod.inske	sbad, NM 211	88220	<u></u>	<u>City, State, Zip:_Calsbad, NM 88220</u> Phone:575-689-7597 Email:_jim.raley@dvn.com		by 8015	by 8015	021				Method	MN	×		и со	State UT AZ	RCRA TX
Report c Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC N	BGDOC TX		<u>< </u>	Remarks	i
10:07	3/30/23	Soil	1 Jar		SS01 - 0'	1								x					
10:13	3/30/23	Soil	1 Jar		SS02 - 0'	a								x					
10:17	3/30/23	Soil	1 Jar		SS03 - 0'	3								x					
10:23	3/30/23	Soil	1 Jar		SS04 - 0'	4		_						x					
10:34	3/30/23	Soil	1 Jar		SS05 - 0.5'	5								x					L L
9:53	3/30/23	Soil	1 Jar		BG01 - 1'	0		-			-			x					
																			Q
					burton@wescominc.com, shar.harvest	er@wesco	minc	.com	n, jim	n.rale	ey@d	lvn.com	n, jerrr	od.in	skeep@	wescomi	inc.con	٦,	
I, (field sam	pler), attest to th	e validity an	d authenticit aud and may	y be grounds for legal	a aware that tampering with or intentionally mislabellin action. <u>Sampled by:</u>	g the sample l	ocation	n,					COLUMN TO THE OWNER			received on ic an 6 °C on subs			led or received
Reinquish	ed by: (Signatu MA AR ed by: (Signatu	re) RLRE re)	2 Qate	Time	P2pm Received by: (Signature) Received by: (Signature)	Date 3-91-2		Time 12 Time	02		Rece	eived o	n ice:	Li (Y	b Use C Y N	Dnly			
to	ed by: (Signatu	fe	4	51-23 4 4	30 Karen fin 45 Received by: (Sight There)	10	23	Time	:0	Ô	-	Temp		<u>T2</u>		<u> T3</u>			
Note: Sam		ded 30 days	after resul	ts are reported unl	ess other arrangements are made. Hazardous sa tory with this COC. The liability of the laboratory		e retu	rned t	o clier	nt or o	dispos	ed of at t					the analy	ysis of the	above
										C		(91	1	vi	rc	>t	e	cł

eceived by	y OCD: 9/27/2023 1:40:51 PM	nvirataak	Analytica	I I abaratary		Page 56 of 2
	Ľ		•	l Laboratory		Printed: 4/3/2023 9:35:23AM
structions	Please take note of any NO checkmarks.	Sample	Receipt Chec	klist (SRC)		
	o response concerning these items within 24 hours of the	date of this not	ice, all the sampl	es will be analyzed as requ	uested.	
Client:]	Devon Energy - Carlsbad D	Date Received:	04/03/23 08:00		Work Order ID:	E304001
Chieffith						Alexa Michaels
		Date Logged In: Due Date:	04/03/23 09:29 04/07/23 17:00	(A day TAT)	Logged In By:	Alexa Michaels
Einan. J		de Date.	04/07/25 17.00	(4 day IAI)		
<u>Chain of C</u>	<u>Custody (COC)</u>					
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 san	nples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was the	COC complete, i.e., signatures, dates/times, requester	d analyses?	Yes			
5. Were all	samples received within holding time?		Yes			
	Note: Analysis, such as pH which should be conducted in th	ne field,			Commen	ts/Resolution
	i.e, 15 minute hold time, are not included in this disucssion.				<u>commen</u>	ts/ Acsolution
	<u>rn Around Time (TAT)</u> COC indicate standard TAT, or Expedited TAT?		Yes			
	· •		105			
Sample Co	mple cooler received?		Yes			
	as cooler received in good condition?		Yes			
•	sample(s) received intact, i.e., not broken?					
			Yes			
	ustody/security seals present?		No			
•	were custody/security seals intact?		NA			
]	sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re minutes of sampling		Yes			
	sible ice, record the temperature. Actual sample te	mperature: 4 ^c	<u>°C</u>			
Sample Co	ntainer	-				
-	eous VOC samples present?		No			
-	OC samples collected in VOA Vials?		NA			
	ead space less than 6-8 mm (pea sized or less)?		NA			
	rip blank (TB) included for VOC analyses?		NA			
	n-VOC samples collected in the correct containers?		Yes			
	propriate volume/weight or number of sample container	s collected?	Yes			
Field Labe	1					
	- eld sample labels filled out with the minimum inform	nation:				
San	nple ID?		Yes			
	te/Time Collected?		Yes	L		
	llectors name?		No			
Sample Pro		10				
	e COC or field labels indicate the samples were pres	erved?	No			
	nple(s) correctly preserved?	a1a9	NA			
	Iteration required and/or requested for dissolved met	ais :	No			
-	<u>e Sample Matrix</u>					
	e sample have more than one phase, i.e., multiphase		No			
27. If yes, d	loes the COC specify which phase(s) is to be analyze	ed?	NA			
Subcontra	<u>ct Laboratory</u>					
28. Are san	nples required to get sent to a subcontract laboratory	?	No			

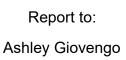
28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab:
Client Instruction		

Date



envirotech Inc.

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





5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Ensolum, LLC

Project Name:

RDX Federal 21 #041

Work Order: E308112

Job Number: 01058-0007

Received: 8/16/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 8/24/23

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

Date Reported: 8/24/23

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX Federal 21 #041 Workorder: E308112 Date Received: 8/16/2023 8:05:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/16/2023 8:05:00AM, under the Project Name: RDX Federal 21 #041.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #041 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

Field Offices:

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Southern New Mexico Area Lynn Jarboe Technical Representative/Client Services Office: 505-421-LABS(5227)

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

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

Envirotech Web Address: www.envirotech-inc.com



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1 180	00	~	_	~ '

v		Sample Sum	mary		c
Ensolum, LLC 3122 National Parks Hwy		Project Name: Project Number:]	Reported:
Carlsbad NM, 88220		Project Manager:	Ashley Giovengo		08/24/23 11:05
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 - 3'	E308112-01A	Soil	08/14/23	08/16/23	Glass Jar, 2 oz.



	~	ampic D				
Ensolum, LLC	Project Name		X Federal 21	#041		
3122 National Parks Hwy	Project Numb		58-0007		Reported:	
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Giovengo	8/24/2023 11:05:45AM		
		PH01 - 3'				
		E308112-01				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	analyst: RKS		Batch: 2333040
Benzene	ND	0.0250	1	08/16/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/18/23	
Toluene	ND	0.0250	1	08/16/23	08/18/23	
o-Xylene	ND	0.0250	1	08/16/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/16/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		100 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		101 %	70-130	08/16/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	nalyst: RKS		Batch: 2333040
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		100 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		101 %	70-130	08/16/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORC	mg/kg	mg/kg	А	nalyst: JL		Batch: 2333057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/22/23	
Surrogate: n-Nonane		102 %	50-200	08/17/23	08/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2333063
Chloride	567	200	10	08/17/23	08/17/23	



QC Summary Data

		X U U		iry Dat						
Ensolum, LLC		Project Name:	RI	OX Federal 2	1 #041				Reported:	
3122 National Parks Hwy		Project Number:	01	058-0007					•	
Carlsbad NM, 88220		Project Manager:	ger: Ashley Giovengo						8/24/2023 11:05:45AM	
		Volatile Organic								
					Analyst: RKS					
Analyte		Reporting	Spike	Source		Rec		RPD		
-	Result	Limit	Level	Result	Rec	Limits	RPD	Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2333040-BLK1)							Prepared: 0	8/16/23 Ana	lyzed: 08/18/23	
Benzene	ND	0.0250							•	
Ethylbenzene	ND	0.0250								
Toluene	ND	0.0250								
o-Xylene	ND	0.0250								
p,m-Xylene	ND	0.0500								
Total Xylenes	ND	0.0250								
Surrogate: Bromofluorobenzene	0.502	0.0250	0.500		100	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130				
Surrogate: 1,2 Diemoroennale u4 Surrogate: Toluene-d8	0.502		0.500		100	70-130				
-							Duono - 1. O	0/1//22	ward, 00/10/02	
LCS (2333040-BS1)	2.50		2.50		102	70.100	Prepared: 0	o/10/23 Ana	lyzed: 08/18/23	
Benzene	2.58	0.0250	2.50		103	70-130				
Ethylbenzene	2.42	0.0250	2.50		96.9	70-130				
Toluene	2.51	0.0250	2.50		101	70-130				
o-Xylene	2.56	0.0250	2.50		102	70-130				
p,m-Xylene	5.04	0.0500	5.00		101	70-130				
Total Xylenes	7.60	0.0250	7.50		101	70-130				
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130				
Surrogate: Toluene-d8	0.512		0.500		102	70-130				
Matrix Spike (2333040-MS1)				Source:	E308111-	05	Prepared: 0	8/16/23 Ana	lyzed: 08/18/23	
Benzene	2.69	0.0250	2.50	ND	108	48-131				
Ethylbenzene	2.55	0.0250	2.50	ND	102	45-135				
Toluene	2.62	0.0250	2.50	ND	105	48-130				
o-Xylene	2.70	0.0250	2.50	ND	108	43-135				
p,m-Xylene	5.30	0.0500	5.00	ND	106	43-135				
Total Xylenes	8.00	0.0250	7.50	ND	107	43-135				
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130				
Surrogate: Toluene-d8	0.515		0.500		103	70-130				
Matrix Spike Dup (2333040-MSD1)				Source:	E308111-(05	Prepared: 0	8/16/23 Ana	lyzed: 08/18/23	
Benzene	2.59	0.0250	2.50	ND	104	48-131	3.77	23		
Ethylbenzene	2.44	0.0250	2.50	ND	97.5	45-135	4.61	27		
Toluene	2.52	0.0250	2.50	ND	101	48-130	3.74	24		
o-Xylene	2.65	0.0250	2.50	ND	106	43-135	1.66	27		
p,m-Xylene	5.18	0.0500	5.00	ND	100	43-135	2.23	27		
Total Xylenes	7.84	0.0250	7.50	ND	104	43-135	2.04	27		
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130				
Surrogate: 1,2 Diemoroennale u4 Surrogate: Toluene-d8	0.507		0.500		101	70-130				
surrogate. 10tuene-uo	0.507		0.200		101	/0-150				



QC Summary Data

		QC DI		ary Data	4				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	DX Federal 21 1058-0007 Ashley Gioveng					Reported: 8/24/2023 11:05:45AM
	No	Analyst: RKS							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2333040-BLK1)							Prepared: 0	8/16/23	Analyzed: 08/18/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			
LCS (2333040-BS2)							Prepared: 0	8/16/23	Analyzed: 08/18/23
Gasoline Range Organics (C6-C10)	53.8	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.3	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			
Matrix Spike (2333040-MS2)				Source:	E308111-0	5	Prepared: 0	8/16/23	Analyzed: 08/18/23
Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			
Matrix Spike Dup (2333040-MSD2)				Source:	E308111-0	5	Prepared: 0	8/16/23	Analyzed: 08/18/23
Gasoline Range Organics (C6-C10)	56.9	20.0	50.0	ND	114	70-130	2.20	20	
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			



QC Summary Data

		QC S		ary Data	1				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX Federal 21 1058-0007 Ashley Gioveng					Reported: 8/24/2023 11:05:45AM
	Nonh	alogenated Org	anics by	EPA 8015D	- DRO	/ORO			Analyst: JL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2333057-BLK1)							Prepared: 0	8/17/23 A	analyzed: 08/18/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	49.0		50.0		97.9	50-200			
LCS (2333057-BS1)							Prepared: 0	8/17/23 A	analyzed: 08/18/23
Diesel Range Organics (C10-C28)	240	25.0	250		96.2	38-132			
Surrogate: n-Nonane	46.4		50.0		92.9	50-200			
Matrix Spike (2333057-MS1)			Source:]	E308115-	03	Prepared: 0	8/17/23 A	analyzed: 08/18/23	
Diesel Range Organics (C10-C28)	231	25.0	250	ND	92.2	38-132			
Surrogate: n-Nonane	40.0		50.0		80.1	50-200			
Matrix Spike Dup (2333057-MSD1)				Source:]	E308115-	03	Prepared: 0	8/17/23 A	analyzed: 08/18/23
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.5	38-132	2.39	20	
Surrogate: n-Nonane	42.3		50.0		84.6	50-200			



QC Summary Data

		QU D	u 111111	ary Date	•				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Number: Project Manager:	(RDX Federal 21 01058-0007 Ashley Gioveng				Reported: 8/24/2023 11:05:45AM		
		Anions	by EPA	300.0/9056A					Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2333063-BLK1)							Prepared: 0	8/17/23 A	Analyzed: 08/17/23
Chloride	ND	20.0							
LCS (2333063-BS1)							Prepared: 0	8/17/23 A	Analyzed: 08/17/23
Chloride	265	20.0	250		106	90-110			
Matrix Spike (2333063-MS1)				Source:	E308112-()1	Prepared: 0	8/17/23 A	Analyzed: 08/17/23
Chloride	802	200	250	567	93.8	80-120			
Matrix Spike Dup (2333063-MSD1)				Source:	E308112-()1	Prepared: 0	8/17/23 A	Analyzed: 08/17/23
Chloride	798	200	250	567	92.2	80-120	0.503	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.



Γ	Ensolum, LLC	Project Name:	RDX Federal 21 #041	
	3122 National Parks Hwy	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/24/23 11:05

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Client:	Ensolum, LLC.				Bill To		1994 1	17-53	Lab	Use C	Dnly	1.2	1		TAT	Г	EPA Program		
	RDX Federal	28 #041			Attention: Jim Raley		Lab W	/0#	and a	Jol	b Nu	mber	1D	2D	2	Standard	CWA	SDWA	
Project	Manager: Asl	nley Giov	engo			Address: 5315 Buena Vista Dr										x			
Address	: 3122 Nation	nal Parks	Hwy		City, State, Zip: Carlsbad N				Ana	lysis	and Metho	bd		-			RCRA		
	te, Zip: Carls		88220		Phone: (575)689-7597		h	5											
	575-988-0055				Email: jim.raley@dvn.com		ORO										State		
	agiovengo@ei	nsolum.c	om				RO/	5		0 0	0.0		MN		X	NM CO	UT AZ	TX	
Report	due by:	_					0/0	80.	no	826	e 30					×			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	TPH GR	8015 RTEX hv 8021	DIEVO	VOC by 8260 Metals 6010	Chloride 300.0		BGDOC	-	GDOC		Remarks		
11:30	8/14/2023	Soil	1 Jar		PH01 - 3'	1							x			Do not run unle	ss PH01 - 2' is >	100TPH or 500 C	
		-																	
														1					
	1						-												
			1									-							
Additio	nal Instruction	ns: Plea	se CC: cb	urton@ensolu	um.com, agiovengo@ensolum.c	om, jim.raley@dv	n.com,	cham	nilto	n@er	nsolu	m.com			-				
				y of this sample. I a y be grounds for leg	am aware that tampering with or intentional	lly mislabelling the samp	le locatior	١,								eived on ice the day as than 6 °C on subs		oled or	
Relingus	and by: Istenatur	e)	Date			1/2 B15	SOR T	me 0	15	50 Ro	coive	ad on ice:	Li		e Only	/			
Alinquished by Signature Date Date Time (45 Received by: (Signature)						Go B.1	5.3	me 18			Received on ice: N T1 T2 T3								
Relinquished by: (Signature) MAB MESS Bill-03 Time 130 Received by: (Signature) 1 MAB MESS Bill-03 0130 Ath Man							3	me X'(25	-	/G Te	emp°C_	1						
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other								g - gla	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										

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Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	Ensolum, LLC Da	te Received:	08/16/23 0	8:05	Work Order ID: E308112
Phone:	(575) 988-0055 Da	te Logged In:	08/15/23 1	5:48	Logged In By: Caitlin Mars
Email:	a.giovengo@ensolum.com Du	e Date:	08/22/23 1	7:00 (4 day TAT)	
Chain of	f Custody (COC)				
1. Does t	the sample ID match the COC?		Yes		
2. Does t	the number of samples per sampling site location match t	he COC	Yes		
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: C	Courier
4. Was th	ne COC complete, i.e., signatures, dates/times, requested	analyses?	Yes	_	
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes		Comments/Resolution
Sample '	<u>Turn Around Time (TAT)</u>				
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes		COC Remarks: E308112-01A Sample ID
Sample	Cooler				PH01-3 (Do not run unless E308115-10A
7. Was a	sample cooler received?		Yes		Sample ID PH01-2 is >100 TPH or 600 Cl
8. If yes,	was cooler received in good condition?		Yes) This workorder will be on hold until
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes		results for E308115-10A are available to
10. Were	e custody/security seals present?		No		
11. If yes	s, were custody/security seals intact?		NA		review.
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec minutes of sampling		Yes		
13. If no	visible ice, record the temperature. Actual sample tem	perature: <u>4°</u>	<u>'C</u>		
Sample	<u>Container</u>				
	aqueous VOC samples present?		No		
	VOC samples collected in VOA Vials?		NA		
	e head space less than 6-8 mm (pea sized or less)?		NA		
	a trip blank (TB) included for VOC analyses?		NA		
	non-VOC samples collected in the correct containers?		Yes		
	appropriate volume/weight or number of sample containers	collected?	Yes		
Field La					
	e field sample labels filled out with the minimum information Sample ID?	ition:	Yes		
	Date/Time Collected?		Yes		
	Collectors name?		No		
Sample]	Preservation				
21. Does	s the COC or field labels indicate the samples were prese	rved?	No		
	sample(s) correctly preserved?		NA		
24. Is lat	o filteration required and/or requested for dissolved meta	ls?	No		
-	ase Sample Matrix				
	s the sample have more than one phase, i.e., multiphase?		No		
27. If ye	s, does the COC specify which phase(s) is to be analyzed	!?	NA		
Subcont	ract Laboratory				
28. Are s	samples required to get sent to a subcontract laboratory?		No		

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



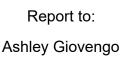
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Project Information

Released to Imaging: 2/14/2024 11:21:48 AM

P	DXF	eder	al 2	1 #041		Changed proy	ct no	m	e	Pe	r	Ci	Bu	rtor		8	24	122	C	4	
Client: E	nsolum, LLC.					Bill To			L Book	La	ab Us	e On	ly			0	TA	T		EPA P	rogram
Project: RDX Federal 28 #041					14-	Attention: Jim Raley	Lah WO#			Job Number					3D			CWA	SDWA		
and the second sec	lanager: Asl	and the second se			1-1-1	Address: 5315 Buena Vista Dr	E308/12			?	010.	58-1	0007					x		1	
	3122 Nation	and the second second second second				City, State, Zip: Carlsbad NM, 8822						sis and	Metho	d		1				RCRA	
	e, Zip: Carls		88220	the second second		Phone: (575)689-7597	-		yd C									1. K			
a second s	75-988-005	and the second s	and the state of the			Email: jim.raley@dvn.com			/ORC				-							State	
the second se	giovengo@ei	nsolum.c	om						DRO,	121	60	9	0.00		WN	12.1	ž	N	M CO	UT AZ	TX ·
Report d	ue by:			- L	Strevel 1	and the second	1		RO/I	oy BC	y 82	s 601	de 3						×		
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	
11:30	8/14/2023	Soil	1 Jar			PH01 - 3'	1								x			Do	not run unles	PH01 - 2" is >	100TPH or 600 Cl
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date or fine	of collection is c	onsidered fra		y of this sample. I an y be grounds for lega		re that tampering with or intentionally mislabel	ling the samp	le loca		-		receive	d packed	i in ice at an	avg ter	np abov	ve 0 but l	ess than 6	ice the day t °C on subse	hey are samp quent days.	led or
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	ix: S - Soil, Sd - Se						Containe														
samples is	applicable only	to those sa	after resul	ts are reported unl lived by the labora	tory	ther arrangements are made. Hazardous with this COC. The liability of the laborator	samples will v is limited t	be re	turnet	to cl	d for a	on the	report	at the cli	ient e	xpens	e. The	e report	for the ar	alysis of t	he above
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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 Federa

RDX Federal 21 #041

Work Order: E308127

Job Number: 01058-0007

Received: 8/17/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/22/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 8/22/23

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX Federal 21 #041 Workorder: E308127 Date Received: 8/17/2023 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/17/2023 8:00:00AM, under the Project Name: RDX Federal 21 #041.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #041 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

Field Offices:

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Southern New Mexico Area Lynn Jarboe Technical Representative/Client Services Office: 505-421-LABS(5227)

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

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

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

		Sample Sum	mary		
3122 National Parks Hwy Proje		Project Name: Project Number: Project Manager:	RDX Federal 21 #0 01058-0007 Ashley Giovengo)41	Reported: 08/22/23 16:05
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 - 1'	E308127-01A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
FS02 - 1'	E308127-02A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
FS03 - 1'	E308127-03A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
FS04 - 1'	E308127-04A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
FS05 - 1'	E308127-05A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
FS10 - 1.5'	E308127-06A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
FS115'	E308127-07A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
FS125'	E308127-08A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
FS135'	E308127-09A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
FS145'	E308127-10A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
FS155'	E308127-11A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
FS165'	E308127-12A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
FS175'	E308127-13A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
FS185'	E308127-14A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
FS195'	E308127-15A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
FS205'	E308127-16A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
FS215'	E308127-17A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.



	N	ampic D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Num Project Mana	ber: 010:	X Federal 21 #041 58-0007 ley Giovengo			Reported: 8/22/2023 4:05:57PM
		FS01 - 1'				
		E308127-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	RKS		Batch: 2333056
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
o-Xylene	ND	0.0250	1	08/17/23	08/18/23	
o,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
urrogate: 4-Bromochlorobenzene-PID		95.1 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	RKS		Batch: 2333056
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	JL		Batch: 2333054
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/17/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/17/23	
Surrogate: n-Nonane		109 %	50-200	08/17/23	08/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	BA		Batch: 2333066
Chloride	1030	400	20	08/17/23	08/20/23	



	5	ample D	ala			
Ensolum, LLC	Project Name:	: RDZ	K Federal 21 #04	1		
3122 National Parks Hwy	Project Numb	er: 0105	58-0007		Reported:	
Carlsbad NM, 88220	Project Manag	ger: Ash	ey Giovengo			8/22/2023 4:05:57PM
		FS02 - 1'				
		E308127-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2333056
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
oluene	ND	0.0250	1	08/17/23	08/18/23	
-Xylene	ND	0.0250	1	08/17/23	08/18/23	
,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
urrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2333056
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2333054
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/17/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/17/23	
urrogate: n-Nonane		101 %	50-200	08/17/23	08/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2333066
Chloride	1150	400	20	08/17/23	08/20/23	



	De	ample D	ala			
Ensolum, LLC	Project Name:	RDZ	K Federal 21 #04	1		
3122 National Parks Hwy	Project Number	er: 0105	58-0007		Reported:	
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Giovengo			8/22/2023 4:05:57PM
		FS03 - 1'				
		E308127-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2333056
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
o-Xylene	ND	0.0250	1	08/17/23	08/18/23	
o,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: 4-Bromochlorobenzene-PID		92.9 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2333056
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.5 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2333054
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/17/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/17/23	
Surrogate: n-Nonane		105 %	50-200	08/17/23	08/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2333066
Chloride	2760	400	20	08/17/23	08/20/23	



	5	ample D	ala			
Ensolum, LLC	Project Name:	: RD2	K Federal 21 #	041		
3122 National Parks Hwy	Project Numb	er: 0105	58-0007		Reported:	
Carlsbad NM, 88220	Project Manag	ger: Ash	ey Giovengo			8/22/2023 4:05:57PM
		FS04 - 1'				
		E308127-04				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2333056
Benzene	ND	0.0250	1	08/17/23	08/18/23	
thylbenzene	ND	0.0250	1	08/17/23	08/18/23	
oluene	ND	0.0250	1	08/17/23	08/18/23	
-Xylene	ND	0.0250	1	08/17/23	08/18/23	
,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
urrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2333056
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2333054
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/17/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/17/23	
urrogate: n-Nonane		99.7 %	50-200	08/17/23	08/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2333066
Chloride	1560	100	5	08/17/23	08/20/23	



	25	ample D	ลเล			
Ensolum, LLC	Project Name:	RDZ	X Federal 21 #041			
3122 National Parks Hwy	Project Numbe	er: 0105	58-0007		Reported:	
Carlsbad NM, 88220	Project Manag	er: Ash	ley Giovengo			8/22/2023 4:05:57PM
		FS05 - 1'				
		E308127-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	RKS		Batch: 2333056
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
p-Xylene	ND	0.0250	1	08/17/23	08/18/23	
o,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: 4-Bromochlorobenzene-PID		95.2 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	RKS		Batch: 2333056
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.6 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: JL		Batch: 2333054
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/17/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/17/23	
Surrogate: n-Nonane		104 %	50-200	08/17/23	08/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	BA		Batch: 2333066
Chloride	2250	400	20	08/17/23	08/20/23	



	Da	imple D	ala			
Ensolum, LLC	Project Name:	RDZ	K Federal 21 #04	[
3122 National Parks Hwy	Project Numbe	r: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Manage	er: Ash	ey Giovengo			8/22/2023 4:05:57PM
]	FS10 - 1.5'				
]	E308127-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2333056
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
p-Xylene	ND	0.0250	1	08/17/23	08/18/23	
o,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Fotal Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: 4-Bromochlorobenzene-PID		94.4 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2333056
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.0 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2333054
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/18/23	
Surrogate: n-Nonane		105 %	50-200	08/17/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2333066
Chloride	598	200	10	08/17/23	08/20/23	



	25	ample D	ลเล			
Ensolum, LLC	Project Name:	RDZ	K Federal 21 #04	1		
3122 National Parks Hwy	Project Numbe	er: 0105	58-0007			Reported:
Carlsbad NM, 88220	Project Manage	er: Ash	ley Giovengo			8/22/2023 4:05:57PM
		FS115'				
]	E308127-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
olatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: RKS		Batch: 2333056
enzene	ND	0.0250	1	08/17/23	08/18/23	
thylbenzene	ND	0.0250	1	08/17/23	08/18/23	
oluene	ND	0.0250	1	08/17/23	08/18/23	
-Xylene	ND	0.0250	1	08/17/23	08/18/23	
m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
otal Xylenes	ND	0.0250	1	08/17/23	08/18/23	
urrogate: 4-Bromochlorobenzene-PID		94.8 %	70-130	08/17/23	08/18/23	
onhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: RKS		Batch: 2333056
asoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	08/17/23	08/18/23	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: JL		Batch: 2333054
iesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/18/23	
il Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/18/23	
urrogate: n-Nonane		107 %	50-200	08/17/23	08/18/23	
nions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: BA		Batch: 2333066
	IIIg/ Kg	IIIg/ Kg	1	SH BH		Baten: 2555000



	50	ample D	ala			
Ensolum, LLC	Project Name:	RDZ	K Federal 21 #	041		
3122 National Parks Hwy	Project Numbe	er: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ey Giovengo			8/22/2023 4:05:57PM
		FS125'				
		E308127-08				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2333056
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
o-Xylene	ND	0.0250	1	08/17/23	08/18/23	
,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
urrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2333056
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2333054
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/18/23	
urrogate: n-Nonane		106 %	50-200	08/17/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2333066
Chloride	ND	40.0	2	08/17/23	08/20/23	



	25	imple D	ลเล			
Ensolum, LLC	Project Name:	RDZ	K Federal 21 #	041		
3122 National Parks Hwy	Project Numbe	r: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Manage	er: Ash	ley Giovengo			8/22/2023 4:05:57PM
		FS135'				
]	E308127-09				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2333056
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
oluene	ND	0.0250	1	08/17/23	08/18/23	
-Xylene	ND	0.0250	1	08/17/23	08/18/23	
,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
urrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2333056
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		90.0 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2333054
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/18/23	
'urrogate: n-Nonane		105 %	50-200	08/17/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2333066



	5	ample D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 0103	K Federal 21 #0 58-0007 ley Giovengo	41		Reported: 8/22/2023 4:05:57PM
		FS145'				
		E308127-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2333056
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
p-Xylene	ND	0.0250	1	08/17/23	08/18/23	
o,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Fotal Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2333056
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.5 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2333054	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/18/23	
Surrogate: n-Nonane		106 %	50-200	08/17/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2333066
Chloride	ND	40.0	2	08/17/23	08/20/23	



	25	ample D	ลเล			
Ensolum, LLC	Project Name:	RDZ	X Federal 21 #0	41		
3122 National Parks Hwy	Project Numbe	er: 0105	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	er: Ash	ley Giovengo			8/22/2023 4:05:57PM
		FS155'				
		E308127-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2333056
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
p-Xylene	ND	0.0250	1	08/17/23	08/18/23	
o,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Fotal Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: 4-Bromochlorobenzene-PID		95.1 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2333056
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: JL		Batch: 2333054
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/18/23	
Surrogate: n-Nonane		106 %	50-200	08/17/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2333066
Chloride	ND	20.0	1	08/17/23	08/20/23	



Sample Data

	Da	ample D	ata			
Ensolum, LLC	Project Name:	RD	X Federal 21 #041			
3122 National Parks Hwy	Project Number	er: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Giovengo			8/22/2023 4:05:57PM
		FS165'				
		E308127-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2333056
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
p-Xylene	ND	0.0250	1	08/17/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Fotal Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2333056
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2333054
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/18/23	
Surrogate: n-Nonane		107 %	50-200	08/17/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2333066
Chloride	ND	40.0	2	08/17/23	08/20/23	



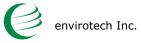
Sample Data

	Da	ample D	ata			
Ensolum, LLC	Project Name:	RD	K Federal 21 #041	1		
3122 National Parks Hwy	Project Numbe	er: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Giovengo			8/22/2023 4:05:57PM
		FS175'				
		E308127-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2333056
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
p-Xylene	ND	0.0250	1	08/17/23	08/18/23	
o,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2333056
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2333054
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/18/23	
Surrogate: n-Nonane		105 %	50-200	08/17/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2333066
Chloride	ND	40.0	2	08/17/23	08/20/23	

	50	ample D	ala			
Ensolum, LLC	Project Name:	RDZ	K Federal 21 #	041		
3122 National Parks Hwy	Project Numbe	er: 0105	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	er: Ash	ley Giovengo			8/22/2023 4:05:57PM
		FS185'				
	-	E308127-14				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2333056
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
o-Xylene	ND	0.0250	1	08/17/23	08/18/23	
,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/18/23	
urrogate: 4-Bromochlorobenzene-PID		95.0 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2333056
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.4 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2333054
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/18/23	
urrogate: n-Nonane		103 %	50-200	08/17/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2333066
Chloride	ND	40.0	2	08/17/23	08/20/23	



	25	ample D	ลเล			
Ensolum, LLC	Project Name:	RDZ	K Federal 21 #0	941		
3122 National Parks Hwy	Project Numbe	er: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	er: Ash	ley Giovengo			8/22/2023 4:05:57PM
		FS195'				
]	E308127-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2333056
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
p-Xylene	ND	0.0250	1	08/17/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Fotal Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2333056
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2333054
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/18/23	
Surrogate: n-Nonane		106 %	50-200	08/17/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2333066
Chloride	ND	100	5	08/17/23	08/20/23	



	50	ample D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	er: 010	K Federal 21 # 58-0007 ley Giovengo	#041		Reported: 8/22/2023 4:05:57PM
		FS205'				
		F 5205 E308127-16				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: RKS		Batch: 2333056
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
oluene	ND	0.0250	1	08/17/23	08/18/23	
-Xylene	ND	0.0250	1	08/17/23	08/18/23	
,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
fotal Xylenes	ND	0.0250	1	08/17/23	08/18/23	
urrogate: 4-Bromochlorobenzene-PID		94.1 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	alyst: RKS		Batch: 2333056
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.9 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	alyst: JL		Batch: 2333054
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/18/23	
urrogate: n-Nonane		108 %	50-200	08/17/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	alyst: BA		Batch: 2333066
Chloride	ND	100	5	08/17/23	08/20/23	



Sample Data

	25	imple D	ลเล			
Ensolum, LLC	Project Name:	RD	K Federal 21 #04	1		
3122 National Parks Hwy	Project Numbe	er: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Manage	er: Ash	ley Giovengo			8/22/2023 4:05:57PM
		FS215'				
]	E308127-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2333056
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Foluene	ND	0.0250	1	08/17/23	08/18/23	
p-Xylene	ND	0.0250	1	08/17/23	08/18/23	
o,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Fotal Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: 4-Bromochlorobenzene-PID		94.5 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2333056
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2333054
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/18/23	
Surrogate: n-Nonane		108 %	50-200	08/17/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2333066
Chloride	109	40.0	2	08/17/23	08/20/23	



QC Summary Data

Ensolum, LLC		Project Name:	RI	DX Federal 2	1 #041				Reported:
3122 National Parks Hwy		Project Number:	01	058-0007					Keporteu.
Carlsbad NM, 88220		Project Manager:		shley Gioveng	go				8/22/2023 4:05:57PM
		Volatile O	rganics t	oy EPA 802	21B				Analyst: RKS
		Reporting	Spike	Source		Rec		RPD	
Analyte	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2333056-BLK1)							Prepared: 0	8/17/23 A	analyzed: 08/18/23
Benzene	ND	0.0250							· ·
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			
LCS (2333056-BS1)							Prepared: 0	8/17/23 A	analyzed: 08/18/23
Benzene	5.32	0.0250	5.00		106	70-130			
Ethylbenzene	5.23	0.0250	5.00		105	70-130			
Toluene	5.30	0.0250	5.00		106	70-130			
p-Xylene	5.24	0.0250	5.00		105	70-130			
o,m-Xylene	10.6	0.0500	10.0		106	70-130			
Total Xylenes	15.9	0.0250	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			
Matrix Spike (2333056-MS1)				Source:	E308127-	02	Prepared: 0	8/17/23 A	analyzed: 08/18/23
Benzene	5.21	0.0250	5.00	ND	104	54-133			
Ethylbenzene	5.10	0.0250	5.00	ND	102	61-133			
Toluene	5.18	0.0250	5.00	ND	104	61-130			
o-Xylene	5.12	0.0250	5.00	ND	102	63-131			
o,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.2	70-130			
Matrix Spike Dup (2333056-MSD1)				Source:	E308127-	02	Prepared: 0	8/17/23 A	analyzed: 08/18/23
Benzene	4.83	0.0250	5.00	ND	96.7	54-133	7.47	20	
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133	6.56	20	
Toluene	4.83	0.0250	5.00	ND	96.6	61-130	7.06	20	
p-Xylene	4.76	0.0250	5.00	ND	95.2	63-131	7.26	20	
o,m-Xylene	9.73	0.0500	10.0	ND	97.3	63-131	6.29	20	
	14.5	0.0250	15.0	ND	96.6	63-131	6.61	20	



QC Summary Data

		QC S	uIIIII	ary Data	1				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX Federal 21 11058-0007 Ashley Gioveng					Reported: 8/22/2023 4:05:57PM
	Nor	nhalogenated C	Organics	by EPA 801	15D - GI	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2333056-BLK1)							Prepared: 0	8/17/23 A	analyzed: 08/18/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			
LCS (2333056-BS2)							Prepared: 0	8/17/23 A	analyzed: 08/18/23
Gasoline Range Organics (C6-C10)	49.8	20.0	50.0		99.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			
Matrix Spike (2333056-MS2)				Source:	E308127-0	02	Prepared: 0	8/17/23 A	nalyzed: 08/18/23
Gasoline Range Organics (C6-C10)	46.8	20.0	50.0	ND	93.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			
Matrix Spike Dup (2333056-MSD2)				Source:	E308127-0	02	Prepared: 0	8/17/23 A	nalyzed: 08/18/23
Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130	6.68	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		91.9	70-130			



QC Summary Data

		QC S	umm	ary Data					
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX Federal 21 1058-0007 Ashley Giovengo					Reported: 8/22/2023 4:05:57PM
	Nonh	alogenated Org	anics by	FEPA 8015D	- DRO	/ORO			Analyst: JL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
	6 6	6.6	8 8	6 6	,,,	,,,		,,,	
Blank (2333054-BLK1)							Prepared: 0	8/17/23 A	analyzed: 08/17/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.5		50.0		107	50-200			
LCS (2333054-BS1)							Prepared: 0	8/17/23 A	analyzed: 08/17/23
Diesel Range Organics (C10-C28)	244	25.0	250		97.7	38-132			
Surrogate: n-Nonane	52.8		50.0		106	50-200			
Matrix Spike (2333054-MS1)				Source: I	E 30812 7-	01	Prepared: 0	8/17/23 A	analyzed: 08/17/23
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	53.6		50.0		107	50-200			
Matrix Spike Dup (2333054-MSD1)				Source: I	E 30812 7-	01	Prepared: 0	8/17/23 A	analyzed: 08/17/23
Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132	1.30	20	
Surrogate: n-Nonane	52.0		50.0		104	50-200			



QC Summary Data

		QC D	umm	ary Date	4				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(RDX Federal 21 01058-0007 Ashley Gioveng					Reported: 8/22/2023 4:05:57PM
		Anions	by EPA	300.0/9056A	1				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2333066-BLK1)							Prepared: 0	8/17/23 A	analyzed: 08/20/23
Chloride	ND	20.0							
LCS (2333066-BS1)							Prepared: 0	8/17/23 A	analyzed: 08/20/23
Chloride	243	20.0	250		97.4	90-110			
Matrix Spike (2333066-MS1)				Source:	E308127-0)1	Prepared: 0	8/17/23 A	analyzed: 08/20/23
Chloride	1300	400	250	1030	107	80-120			
Matrix Spike Dup (2333066-MSD1)				Source:	E308127-()1	Prepared: 0	8/17/23 A	analyzed: 08/20/23
Chloride	1260	400	250	1030	90.1	80-120	3.21	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.



Γ	Ensolum, LLC	Project Name:	RDX Federal 21 #041	
	3122 National Parks Hwy	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/22/23 16:05

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Client:	Ensolum, LLC					Bill To				1	Lab L	Jse Oi	nly	vir valv optici			TA			EPA Pr	ogram
Project:	RDX Federal	21 #041			Atten	tion: Jim Raley		Ī	ab WO	D#		Job	Num	ber	1D	2D	3D	Stand	dard	CWA	SDWA
	Manager: As					ess: 5315 Buena Vista Di	and the second se		ab wo	18	21	a	158-	0007				X	(
	: 3122 Natio					State, Zip: Carlsbad NM,	88220			-	-	Anal	ysis ar	d Metho	d	-			and you		RCRA
	ty, State, Zip: Carlsbad NM, 88220					e: (575)689-7597		-	o by									-		State	
	mail: agiovengo@ensolum.com				Email	: jim.raley@dvn.com		-	O/OF				0		Σ			N	MCO	UT AZ	TX
the state of the s	eport due by:							D/DR		8021 8260	5010	300.0		NN		X	,	×			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				ab nber	TPH GRO/DRO/ORO by	8015	BTEX by 8021 VOC by 8260	Metals 6010	Chloride		BGDOC		GDOC			Remarks	ogram SDWA RCRA
11:21	8/15/2023	Soil	1 Jar		F	-S01 - 1'	1	-							x						
11:17	8/15/2023	Soil	1 Jar		F	FS02 - 1'	2								x						
11:15	8/15/2023	Soil	1 Jar		F	-S03 - 1'	3	78							x						
11:13	8/15/2023	Soil	1 Jar		F	FS04 - 1'	4								x						
12:23	8/15/2023	Soil	1 Jar			FS05 - 1	5								x						
11:01	8/15/2023	Soil	1 Jar		FS10 - 1.5'		6								x						
9:47	8/15/2023	Soil	1 Jar		F	S115'	7	1997 (A. 1997) 1997 (A. 1997)							x						
9:45	8/15/2023	Soil	1 Jar		F		8	1							x						
9:55	8/15/2023	Soil	1 Jar		F	S135'	9								x						
9:51	8/15/2023	Soil	1 Jar		F		10								x						
Addition	al Instruction	ns: Plea	ase CC: cl	burton@ensolu	m.com, a	igiovengo@ensolum.com	m, jim.raley	@dvi	n.com,	, cha	milto	n@er	nsolur	n.com							
late or tim	e of collection is c	onsidered f	raud and ma	ay be grounds for lega	l action.	t tampering with or intentionally Sampled by:			e locatior	n,					in avg te	mp abo	ve 0 but	less than 6		they are sam equent days.	pled or
2		-		Time 16/23 18		Cameline K	Date	110	23	me	100	Re	ceived	l on ice:		ab U	se Or N	nly			
alinquish	ed by (Signatur	and	Date D.	14:3 171	5	Could by: Agentur MC	In 8	17/2	33	me 8:	00	<u>T1</u>			<u>T2</u>			T	3		
Relinquish	ed by: (Signatur	e)	Date	Time	F	Received by: (Signature)	Date		Ti	me		AV	G Ter	np °C	4	164	di Alaman Alaman				
	trix: S - Soil, Sd - S													c, <mark>ag</mark> - an							
						arrangements are made. Haz his COC. The liability of the la									client	expen	se. Th	e report	t for the	analysis of	the above

ent:	Ensolum, LLC					Bill To		Lab Use Only			TAT			EPA Pr	ogram				
	RDX Federal				Attention: Ji		Lab WO# Job Number		and the second	1D 2D	3D	Sta	ndard	CWA	SDWA				
	Manager: As					5 Buena Vista Dr		E30	1812			58-00					x		
	: 3122 Natio				carlsbad NM, 882	20		-	-	Analy	sis and N	lethod		-	_			RCRA	
	State, Zip: Carlsbad NM, 88220 Phone: (575)689-7597 e: 575-988-0055 Fmail: iim.ralev@dyn.com						(q O								-		State		
	giovengo@e		com	Email: jim.raley@dvn.com				0/0				0		5		h	MICO	UT AZ	TX
eport o	Call of the standard of the st							D/DR	8021	3260	010	300.		WN	TX	Ë	×	01 712	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				TPH GRO/DRO/ORO by	8015 BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	GDOC			Remarks	
10:00	8/15/2023	Soil	1 Jar		FS155'	FS155'								x					ogram SDW/ RCRA
10:03	8/15/2023	Soil	1 Jar		FS165'	12							x						
10:07	8/15/2023	Soil	1 Jar		FS175'		13				1			x					-
10:10	8/15/2023	Soil	1 Jar		FS185'		14							x					
10:21	8/15/2023	Soil	1 Jar		FS195'		15							x					
10:27	8/15/2023	Soil	1 Jar		FS205'		16							x					
10:27	8/15/2023	Soil	1 Jar		FS215'		17							x					
									+					_		-			
																			-35
ddition	al Instruction	ns: Plea	se CC: cb	urton@ensolu	m.com, agiovengo	@ensolum.com, jim	.raley@dv	n.com,	cham	ilton(@ens	olum.co	m		-				
				y of this sample. I a y be grounds for lega		with or intentionally mislabe Sampled by:		1.00									n ice the day t 6 °C on subse	hey are sampli quent days.	ed or
1	ed by: (Signatur	~	Date OS	116/25 Time	DOlarn	(Signature)	8-16	·251	e O C	ð	Rece	ived on	ice:	Lab U	lse On N	ly			
an	ed by (Signatur ue from ed by: (Signatur	Lank	Date	16.23 17 Time	15 aul	(Signature)	8/17/2	13 T	: a	C	<u>T1</u>			г2		1	13	<u>in in</u>	
					neceived by	. (orginature)						Temp °							
	rix: S - Soil, Sd - So				loss othor arrangement	ts are made. Hazardous	Container										1. f	1	
mples is	applicable only	to those sa	amples rece	ived by the labora	tory with this COC. Th	e liability of the laborator	v is limited to	be return	ed to c	id for i	or dispo	report	the clie	nt expen	se. In	e repor	t for the a	b t	ne above

Envirotech Analytical Laboratory

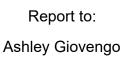
Sample Receipt Checklist (SRC)

	ake note of any NO checkmarks. use concerning these items within 24 hours	of the date of this not	ice, all the	samples will be an	alyzed as req	juested.	
Client: Ensolum	ı, LLC	Date Received:	08/17/23	08:00		Work Order ID:	E308127
Phone: (575) 98	88-0055	Date Logged In:	08/16/23	17:07		Logged In By:	Caitlin Mars
Email: a.gioven	go@ensolum.com	Due Date:	08/23/23	17:00 (4 day TAT)			
Chain of Custody	<u>(COC)</u>						
1. Does the sample	e ID match the COC?		Yes				
2. Does the number	er of samples per sampling site location	match the COC	Yes				
3. Were samples d	ropped off by client or carrier?		Yes	Carrier:	Courier		
4. Was the COC co	omplete, i.e., signatures, dates/times, rec	quested analyses?	Yes				
Note: A	s received within holding time? nalysis, such as pH which should be conduct ninute hold time, are not included in this disu		Yes			Comment	ts/Resolution
Sample Turn Aro	<u>und Time (TAT)</u>						
6. Did the COC in	dicate standard TAT, or Expedited TAT?	?	Yes				
Sample Cooler							
7. Was a sample co	poler received?		Yes				
8. If yes, was coole	er received in good condition?		Yes				
9. Was the sample	(s) received intact, i.e., not broken?		Yes				
10. Were custody/s	security seals present?		No				
	stody/security seals intact?		NA				
	received on ice? If yes, the recorded temp is a nermal preservation is not required, if sample		Yes				
	of sampling e, record the temperature. Actual sam	ple temperature: <u>4°</u>	<u>°C</u>				
Sample Containe	<u>r</u>						
14. Are aqueous V	OC samples present?		No				
15. Are VOC samp	ples collected in VOA Vials?		NA				
16. Is the head spa	ce less than 6-8 mm (pea sized or less)?		NA				
17. Was a trip blan	k (TB) included for VOC analyses?		NA				
18. Are non-VOC	samples collected in the correct contain	ers?	Yes				
19. Is the appropriate	te volume/weight or number of sample con	ntainers collected?	Yes				
Field Label							
	ple labels filled out with the minimum	information:					
Sample ID			Yes				
	Collected?		Yes				
Collectors Sample Preservat			Yes				
-	or field labels indicate the samples wer	e preserved?	No				
	correctly preserved?	e preserveu:	NO				
	n required and/or requested for dissolve	ed metals?	NA				
		a mouno;	INU				
Multiphase Samp		mbaaa9					
-	le have more than one phase, i.e., multi	-	No				
27. If yes, does the	e COC specify which phase(s) is to be a	nalyzed?	NA				
Subcontract Labo							
-	equired to get sent to a subcontract labor	-	No				
29. Was a subcontr	ract laboratory specified by the client ar	nd if so who?	NA	Subcontract La	b: NA		
Client Instructio	<u>n</u>						

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



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5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Ensolum, LLC

Project Name: RDX Federal 21 #041

Work Order: E308156

Job Number: 01058-0007

Received: 8/22/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/25/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 8/25/23

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX Federal 21 #041 Workorder: E308156 Date Received: 8/22/2023 8:15:00AM

Ashley Giovengo,

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Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/22/2023 8:15:00AM, under the Project Name: RDX Federal 21 #041.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #041 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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r -		Sample Summary							
Ensolum, LLC		Project Name:	RDX Federal 21 #041		Reported:				
3122 National Parks Hwy Carlsbad NM, 88220		Project Number: Project Manager:	01058-0007 Ashley Giovengo		08/25/23 10:34				
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container				
FS06 - 4'	E308156-01A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.				
FS08 - 4'	E308156-02A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.				
FS09 - 4'	E308156-03A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.				
SW05 - 2'	E308156-04A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.				



	5	ampic D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numb Project Mana	ber: 0105	K Federal 21 #041 58-0007 ley Giovengo			Reported: 8/25/2023 10:34:22AM
		FS06 - 4'				
		E308156-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2334019
Benzene	ND	0.0250	1	08/22/23	08/23/23	
thylbenzene	ND	0.0250	1	08/22/23	08/23/23	
oluene	ND	0.0250	1	08/22/23	08/23/23	
-Xylene	ND	0.0250	1	08/22/23	08/23/23	
,m-Xylene	ND	0.0500	1	08/22/23	08/23/23	
otal Xylenes	ND	0.0250	1	08/22/23	08/23/23	
urrogate: 4-Bromochlorobenzene-PID		90.0 %	70-130	08/22/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2334019
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/23/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		84.0 %	70-130	08/22/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2334041
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/23	08/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/23/23	08/24/23	
urrogate: n-Nonane		97.2 %	50-200	08/23/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2334029
Chloride	372	200	10	08/22/23	08/22/23	



	0	ampie D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numl Project Mana	ber: 010	K Federal 21 #04 58-0007 ley Giovengo	1		Reported: 8/25/2023 10:34:22AM
		FS08 - 4'				
		E308156-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2334019
Benzene	ND	0.0250	1	08/22/23	08/23/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/23/23	
Toluene	ND	0.0250	1	08/22/23	08/23/23	
-Xylene	ND	0.0250	1	08/22/23	08/23/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/23/23	
Total Xylenes	ND	0.0250	1	08/22/23	08/23/23	
urrogate: 4-Bromochlorobenzene-PID		90.2 %	70-130	08/22/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2334019
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/23/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		83.7 %	70-130	08/22/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2334041
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/23	08/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/23/23	08/24/23	
Surrogate: n-Nonane		93.5 %	50-200	08/23/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2334029
Chloride	359	200	10	08/22/23	08/22/23	



	5	ample D	ala			
3122 National Parks Hwy	Project Name: Project Numbe Project Manag	er: 0103	K Federal 21 #041 58-0007 ley Giovengo			Reported: 8/25/2023 10:34:22AM
		FS09 - 4'				
		E308156-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	RKS		Batch: 2334019
Benzene	ND	0.0250	1	08/22/23	08/23/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/23/23	
Toluene	ND	0.0250	1	08/22/23	08/23/23	
p-Xylene	ND	0.0250	1	08/22/23	08/23/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/23/23	
Fotal Xylenes	ND	0.0250	1	08/22/23	08/23/23	
Surrogate: 4-Bromochlorobenzene-PID		90.4 %	70-130	08/22/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	RKS		Batch: 2334019
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.6 %	70-130	08/22/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: KM		Batch: 2334041
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/23	08/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/23/23	08/24/23	
Surrogate: n-Nonane		90.0 %	50-200	08/23/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	BA		Batch: 2334029
Chloride	494	400	20	08/22/23	08/22/23	



	25	ample D	ลเล			
Ensolum, LLC	Project Name:	RDZ	K Federal 21 #041			
3122 National Parks Hwy	Project Numbe	er: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	er: Ash	ley Giovengo			8/25/2023 10:34:22AM
		SW05 - 2'				
	-	E308156-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: RKS		Batch: 2334019
Benzene	ND	0.0250	1	08/22/23	08/23/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/23/23	
Toluene	ND	0.0250	1	08/22/23	08/23/23	
p-Xylene	ND	0.0250	1	08/22/23	08/23/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/23/23	
Total Xylenes	ND	0.0250	1	08/22/23	08/23/23	
Surrogate: 4-Bromochlorobenzene-PID		91.1 %	70-130	08/22/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: RKS		Batch: 2334019
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.3 %	70-130	08/22/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: KM		Batch: 2334041
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/23	08/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/23/23	08/24/23	
Surrogate: n-Nonane		96.3 %	50-200	08/23/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2334029
Chloride	400	200	10	08/22/23	08/22/23	



QC Summary Data

		QC D	umma	iny Dat	a				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	DX Federal 2 1058-0007 shley Giovena					Reported: 8/25/2023 10:34:22AM
		Volatile O	rganics b	by EPA 802	21B				Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2334019-BLK1)							Prepared: 0	8/22/23 A	nalyzed: 08/22/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.24	0.0250	8.00		90.5	70-130			
LCS (2334019-BS1)							Prepared: 0	8/22/23 A	nalyzed: 08/22/23
Benzene	4.93	0.0250	5.00		98.5	70-130			
Ethylbenzene	4.72	0.0250	5.00		94.4	70-130			
Toluene	4.91	0.0250	5.00		98.3	70-130			
p-Xylene	4.84	0.0250	5.00		96.9	70-130			
p,m-Xylene	9.75	0.0500	10.0		97.5	70-130			
Total Xylenes	14.6	0.0250	15.0		97.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.26		8.00		90.8	70-130			
Matrix Spike (2334019-MS1)				Source:	E308148-0	01	Prepared: 0	8/22/23 A	nalyzed: 08/23/23
Benzene	4.86	0.0250	5.00	ND	97.2	54-133			
Ethylbenzene	4.66	0.0250	5.00	ND	93.1	61-133			
Toluene	4.86	0.0250	5.00	ND	97.1	61-130			
p-Xylene	4.77	0.0250	5.00	ND	95.4	63-131			
p,m-Xylene	9.62	0.0500	10.0	ND	96.2	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	96.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.23		8.00		90.3	70-130			
Matrix Spike Dup (2334019-MSD1)				Source:	E308148-0	01	Prepared: 0	8/22/23 A	nalyzed: 08/23/23
Benzene	4.74	0.0250	5.00	ND	94.8	54-133	2.48	20	
Ethylbenzene	4.53	0.0250	5.00	ND	90.6	61-133	2.77	20	
Toluene	4.73	0.0250	5.00	ND	94.6	61-130	2.66	20	
o-Xylene	4.66	0.0250	5.00	ND	93.2	63-131	2.32	20	
p,m-Xylene	9.37	0.0500	10.0	ND	93.7	63-131	2.68	20	
Total Xylenes	14.0	0.0250	15.0	ND	93.5	63-131	2.56	20	
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.6	70-130			
U U									



QC Summary Data

		QC D	umm	ary Data	a				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	DX Federal 21 1058-0007 Ashley Gioveng					Reported: 8/25/2023 10:34:22AM
	Nor	nhalogenated (, (RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	N
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2334019-BLK1)							Prepared: 0	8/22/23 A	nalyzed: 08/22/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.86		8.00		85.7	70-130			
LCS (2334019-BS2)							Prepared: 0	8/22/23 A	nalyzed: 08/23/23
Gasoline Range Organics (C6-C10)	44.0	20.0	50.0		88.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		8.00		86.5	70-130			
Matrix Spike (2334019-MS2)				Source:	E308148-(01	Prepared: 0	8/22/23 A	nalyzed: 08/23/23
Gasoline Range Organics (C6-C10)	43.6	20.0	50.0	ND	87.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		8.00		86.6	70-130			
Matrix Spike Dup (2334019-MSD2)				Source:	E308148-0	01	Prepared: 0	8/22/23 A	nalyzed: 08/23/23
Gasoline Range Organics (C6-C10)	44.0	20.0	50.0	ND	88.0	70-130	0.946	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.89		8.00		86.2	70-130			



QC Summary Data

		QC D	u	ary Data	u				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX Federal 21 01058-0007 Ashley Gioveng					Reported: 8/25/2023 10:34:22AM
	Nonh	alogenated Org	anics by	y EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2334041-BLK1)							Prepared: 0	8/23/23 A	Analyzed: 08/23/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.5		50.0		117	50-200			
LCS (2334041-BS1)							Prepared: 0	8/23/23 A	Analyzed: 08/24/23
Diesel Range Organics (C10-C28)	248	25.0	250		99.4	38-132			
Surrogate: n-Nonane	48.2		50.0		96.3	50-200			
Matrix Spike (2334041-MS1)				Source:	E308155-	23	Prepared: 0	8/23/23 A	Analyzed: 08/24/23
Diesel Range Organics (C10-C28)	245	25.0	250	ND	98.2	38-132			
Surrogate: n-Nonane	45.2		50.0		90.5	50-200			
Matrix Spike Dup (2334041-MSD1)				Source:	E308155-	23	Prepared: 0	8/23/23 A	Analyzed: 08/24/23
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.7	38-132	1.54	20	
Surrogate: n-Nonane	47.6		50.0		95.2	50-200			



QC Summary Data

		$\mathbf{x} \in \mathbf{z}$							
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager	(RDX Federal 2 01058-0007 Ashley Gioveng					Reported: 8/25/2023 10:34:22AM
		Anions	by EPA	300.0/9056	4				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	
Blank (2334029-BLK1)							Prepared: 0	8/22/23	Analyzed: 08/22/23
Chloride LCS (2334029-BS1)	ND	20.0					Prepared: 0	8/22/23	Analyzed: 08/22/23
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2334029-MS1)				Source:	E308154-2	21	Prepared: 0	8/22/23	Analyzed: 08/22/23
Chloride	269	20.0	250	ND	108	80-120			
Matrix Spike Dup (2334029-MSD1)				Source:	E308154-	21	Prepared: 0	8/22/23	Analyzed: 08/22/23
Chloride	273	20.0	250	ND	109	80-120	1.38	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.



Γ	Ensolum, LLC	Project Name:	RDX Federal 21 #041	
I	3122 National Parks Hwy	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/25/23 10:34

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Client:	Ensolum, LLC		-		Bill To		10	1	Lab U	se Or	158- Ny	000	u	A	TAT		EPA P	rogram
	RDX Federal				Attention: Jim Raley		Lab W			and the second sec	Numbe	r	1D 2	DE	BD	Standard	CWA	SDWA
Project	Manager: As	hley Giov	vengo		Address: 5315 Buena Vist	a Dr	Lab W	0815	te	20	Hler	Orst				x		
Address	: 3122 Natio	nal Parks	Hwy		City, State, Zip: Carlsbad	ate, Zip: Carlsbad NM, 88220			Analy	sis and	Method			-	and the space		RCRA	
	ate, Zip: Carls				Phone: (575)689-7597		l	.	1	1								
Phone:	575-988-005	5			Email: jim.raley@dvn.com	1	RO RO					1.00					State	
Email:	agiovengo@e	nsolum.c	com]		0/0				0		MN			NM CO	UT AZ	TX
Report	due by:						DPB	802	3260	010	300			- 14	¥	×		
Time	Data Camalad	Manhalia	No. of	Campala ID		Lab	GRO	8015 BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		S		Domarka	
Sampled	Date Sampled	Matrix	Containers	Sample ID		Number	HdT	801 BTE	Nov	Met	Chic		BGI		GDOC		Remarks	
12:34	8/18/2023	Soil	1 Jar		FS06 - 4'								x					
12:26	8/18/2023	Soil	1 Jar	1	FS08 - 4'	2							x	-		-		
12:27	8/18/2023	Soil	1 Jar		FS09 - 4'	3							x					
13:40	8/18/2023	Soil	1 Jar		SW05 - 2'	4							x					
			2 3															
								-	-	-				1			171	2.1
								-				-		-				
			-					-	1			-		-	+			
									1					-	-	-		-
					,			-	-			-		-				
Addition		Dia Dia			um.com, agiovengo@ensolum.			-	llaan					-		1		
									miton				reservatio	n must	be rece	ived on ice the day	they are same	oled or
				ly be grounds for le	am aware that tampering with or intention gal action. Sampled by:	iany misiabening the samp	ne locatio	11,								is than 6 °C on subs		
	ed by (Signatur		Date		Received by: (Signature)	Date R.21.	131				eived o		Lab	Use	Only	1		
	ned by: (Signatur		Date	Time	700 Received by: (Signature)	In B.21	.20 1	ime	5		erved o	n ice:		IN				
Relinquist	ned by: (Signatur	e)	Date.	21.73 Time	Received by (Signature)	Date Date	ha	ime a · l	5	_ <u></u>			<u>12</u>			<u> </u>		
ample Ma	trix: S - Soil, Sd - S	olid, Sg - Slu	dge, A - Aqu	eous, O - Other	JAS With M	Containe	CS Type:	g-glas	2 55, p - 1	-	G Temp	the second se	er glas	s, v -	VOA			
Note: San	ples are discard	ed 30 days	after resul	Its are reported u	nless other arrangements are made.	Hazardous samples wil	l be retu	rned to	client	or dis	posed of	at the cl				report for the	analysis of	the above
amples is	applicable only	to those sa	amples rec	eived by the labo	ratory with this COC. The liability of th	e laboratory is limited	to the an	nount p	aid for	on th	e report.				-			
										6	3					vire		-

Envirotech Analytical Laboratory

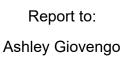
Sample Receipt Checklist (SRC)

Client:	Ensolum, LLC D	ate Received:	08/22/23	08:15		Work Order ID:	E308156
Phone:	(575) 988-0055 D	ate Logged In:	08/21/23	15:30		Logged In By:	Caitlin Mars
Email:	a.giovengo@ensolum.com D	ue Date:	08/28/23	17:00 (4 day TAT)			
Chain of	f Custody (COC)						
	the sample ID match the COC?		Yes				
	the number of samples per sampling site location match	the COC	Yes				
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Cou	irier		
4. Was th	ne COC complete, i.e., signatures, dates/times, requested	analyses?	Yes	Currier. <u>Cot</u>			
	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	•	Yes			Commen	ts/Resolution
<u>Sample '</u>	<u>Turn Around Time (TAT)</u>						
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (<u>Cooler</u>						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes				
10. Were	e custody/security seals present?		No				
11. If yes	s, were custody/security seals intact?		NA				
12. Was tl	he sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re		Yes				
13. If no	minutes of sampling visible ice, record the temperature. Actual sample temperature	mperature: <u>4°</u>	<u>C</u>				
Sample (<u>Container</u>						
14. Are a	aqueous VOC samples present?		No				
15. Are V	VOC samples collected in VOA Vials?		NA				
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
18. Are r	non-VOC samples collected in the correct containers?		Yes				
19. Is the	appropriate volume/weight or number of sample container	s collected?	Yes				
Field La	ibel						
	e field sample labels filled out with the minimum inform	ation:					
	Sample ID? Date/Time Collected?		Yes				
	Collectors name?		Yes Yes				
	Preservation		105				
	the COC or field labels indicate the samples were press	erved?	No				
	sample(s) correctly preserved?		NA				
	o filteration required and/or requested for dissolved met	als?	No				
Multinh	ase Sample Matrix						
	the sample have more than one phase, i.e., multiphase?	,	No				
	s, does the COC specify which phase(s) is to be analyze		NA				
			11/3				
Subser							
	ract Laboratory		NT				
28. Are s	<u>ract Laboratory</u> samples required to get sent to a subcontract laboratory? a subcontract laboratory specified by the client and if sc		No NA	Subcontract Lab: N			

Date



Released to Imaging: 2/14/2024 11:21:48 AM





5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Ensolum, LLC

Project Name:

RDX Federal 21 #041

Work Order: E308136

Job Number: 01058-0007

Received: 8/18/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/22/23

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

Date Reported: 8/22/23

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX Federal 21 #041 Workorder: E308136 Date Received: 8/18/2023 8:15:00AM

issued by the subcontract laboratory.

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on,

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #041 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

8/18/2023 8:15:00AM, under the Project Name: RDX Federal 21 #041.

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

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

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

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com



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		Sample Sum	mary	
Ensolum, LLC		Project Name:	RDX Federal 21 #041	Reported:
3122 National Parks Hwy		Project Number:	01058-0007	Reported:
Carlsbad NM, 88220		Project Manager:	Ashley Giovengo	08/22/23 16:08
Client Sample ID	Lab Sample ID	Matrix	Sampled Received	Container

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
FS07 - 2'	E308136-01A Soil	08/16/23	08/18/23	Glass Jar, 32 oz.
SW06 - 1'	E308136-02A Soil	08/16/23	08/18/23	Glass Jar, 2 oz.



	50	imple D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	er: 0103	X Federal 21 #04 58-0007 ley Giovengo	41		Reported: 8/22/2023 4:08:17PM
		FS07 - 2'				
		E308136-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2333053
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
Foluene	ND	0.0250	1	08/18/23	08/19/23	
p-Xylene	ND	0.0250	1	08/18/23	08/19/23	
o,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
Fotal Xylenes	ND	0.0250	1	08/18/23	08/19/23	
Surrogate: 4-Bromochlorobenzene-PID		89.8 %	70-130	08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2333053
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	70-130	08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2333075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/18/23	
Surrogate: n-Nonane		89.9 %	50-200	08/18/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2333077
Chloride	917	40.0	2	08/18/23	08/20/23	

Sample Data



Sample Data

	b	ample D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numb Project Mana	ber: 010	X Federal 21 #0 58-0007 ley Giovengo	41		Reported: 8/22/2023 4:08:17PM
		SW06 - 1'				
		E308136-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2333053
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
Toluene	ND	0.0250	1	08/18/23	08/19/23	
p-Xylene	ND	0.0250	1	08/18/23	08/19/23	
o,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/18/23	08/19/23	
Surrogate: 4-Bromochlorobenzene-PID		91.3 %	70-130	08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2333053
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2333075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/18/23	
Surrogate: n-Nonane		95.0 %	50-200	08/18/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2333077
Chloride	841	20.0	1	08/18/23	08/20/23	



QC Summary Data

		QC DI							
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	DX Federal 2 058-0007 shley Gioveng					Reported: 8/22/2023 4:08:17PM
		Volatile O	rganics b	oy EPA 802	21B				Analyst: RKS
Analyte		Reporting	Spike	Source		Rec		RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2333053-BLK1)							Prepared: 0	8/17/23 A	nalyzed: 08/18/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.6	70-130			
LCS (2333053-BS1)							Prepared: 0	8/17/23 A	nalyzed: 08/18/23
Benzene	5.19	0.0250	5.00		104	70-130			
Ethylbenzene	5.12	0.0250	5.00		102	70-130			
Toluene	5.19	0.0250	5.00		104	70-130			
p-Xylene	5.12	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			
Matrix Spike (2333053-MS1)				Source:	E308128-0)1	Prepared: 0	8/17/23 A	nalyzed: 08/18/23
Benzene	4.94	0.0250	5.00	ND	98.8	54-133			
Ethylbenzene	6.66	0.0250	5.00	1.76	97.9	61-133			
Toluene	5.29	0.0250	5.00	0.284	100	61-130			
p-Xylene	7.57	0.0250	5.00	2.63	99.0	63-131			
p,m-Xylene	14.9	0.0500	10.0	5.16	97.3	63-131			
Total Xylenes	22.5	0.0250	15.0	7.78	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.40		8.00		92.5	70-130			
				Source:	E308128-0)1	Prepared: 0	8/17/23 A	nalyzed: 08/18/23
Matrix Spike Dup (2333053-MSD1)									
	5.02	0.0250	5.00	ND	100	54-133	1.60	20	
Benzene	5.02 6.72	0.0250 0.0250	5.00 5.00			54-133 61-133	1.60 0.927	20 20	
Benzene Ethylbenzene				ND	100				
Benzene Ethylbenzene Toluene	6.72	0.0250	5.00	ND 1.76	100 99.2	61-133	0.927	20	
Benzene Ethylbenzene Toluene o-Xylene	6.72 5.32	0.0250 0.0250	5.00 5.00	ND 1.76 0.284	100 99.2 101	61-133 61-130	0.927 0.476	20 20	
Matrix Spike Dup (2333053-MSD1) Benzene Ethylbenzene Toluene o-Xylene p.m-Xylene Total Xylenes	6.72 5.32 7.56	0.0250 0.0250 0.0250	5.00 5.00 5.00	ND 1.76 0.284 2.63	100 99.2 101 98.6	61-133 61-130 63-131	0.927 0.476 0.213	20 20 20	·



QC Summary Data

		QC D	umm	ary Data	u				
Ensolum, LLC 3122 National Parks Hwy		Project Name: Project Number:	(RDX Federal 21 01058-0007					Reported:
Carlsbad NM, 88220		Project Manager	: 4	Ashley Gioveng	<u>;</u> 0				8/22/2023 4:08:17PM
	Noi	nhalogenated (Organics	s by EPA 80	15D - GI	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2333053-BLK1)							Prepared: 0	8/17/23 At	nalyzed: 08/18/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			
LCS (2333053-BS2)							Prepared: 0	8/17/23 A	nalyzed: 08/18/23
Gasoline Range Organics (C6-C10)	51.0	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			
Matrix Spike (2333053-MS2)				Source:	E308128-	01	Prepared: 0	8/17/23 A	nalyzed: 08/18/23
Gasoline Range Organics (C6-C10)	189	20.0	50.0	114	150	70-130			M1
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.47		8.00		106	70-130			
Matrix Spike Dup (2333053-MSD2)				Source:	E308128-	01	Prepared: 0	8/17/23 At	nalyzed: 08/18/23
Gasoline Range Organics (C6-C10)	180	20.0	50.0	114	132	70-130	4.75	20	M1
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.04		8.00		100	70-130			

QC Summary Data

		QU D	u 11111	ary Data					
Ensolum, LLC 3122 National Parks Hwy		Project Name: Project Number:	0	RDX Federal 21 1058-0007					Reported: 8/22/2023 4:08:17PM
Carlsbad NM, 88220		Project Manager:	P	Ashley Gioveng	<u>j</u> 0				8/22/2023 4:08:17PM
	Nonha	alogenated Org	anics 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 (2333075-BLK1)							Prepared: 0	8/18/23 A	Analyzed: 08/18/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.3		50.0		94.6	50-200			
LCS (2333075-BS1)							Prepared: 0	8/18/23 A	Analyzed: 08/18/23
Diesel Range Organics (C10-C28)	233	25.0	250		93.2	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			
Matrix Spike (2333075-MS1)				Source:	E308135-	02	Prepared: 0	8/18/23 A	Analyzed: 08/18/23
Diesel Range Organics (C10-C28)	231	25.0	250	ND	92.6	38-132			
Surrogate: n-Nonane	42.1		50.0		84.2	50-200			
Matrix Spike Dup (2333075-MSD1)				Source:	E308135-	02	Prepared: 0	8/18/23 A	Analyzed: 08/18/23
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.0	38-132	0.488	20	
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			



QC Summary Data

		$\mathbf{x} \in \mathbf{z}$	••••••						
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(RDX Federal 2 01058-0007 Ashley Gioveng					Reported: 8/22/2023 4:08:17PM
		Anions	by EPA	300.0/9056	4				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2333077-BLK1)							Prepared: 0	8/18/23	Analyzed: 08/19/23
Chloride LCS (2333077-BS1)	ND	20.0					Prepared: 0	8/18/23	Analyzed: 08/19/23
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2333077-MS1)				Source:	E308066-	01	Prepared: 0	8/18/23	Analyzed: 08/19/23
Chloride	273	20.0	250	ND	109	80-120			
Matrix Spike Dup (2333077-MSD1)				Source:	E308066-	01	Prepared: 0	8/18/23	Analyzed: 08/19/23
Chloride	275	20.0	250	ND	110	80-120	0.434	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.



Ensolum, LLC	Project Name:	RDX Federal 21 #041	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/22/23 16:08

M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Reference Project Information

Page _ of

Received by OCD: 9/27/2023 1:40:51 PM

Client: E	insolum, LLC.				-	Bill To			an a		Lab U							TA	Т	EPA P	rogram
	RDX Federal					Attention: Jim Raley			Lab W	0#	1.5	Job	Num	ber	1	D 2	D	3D	Standard	CWA	SDWA
Project N	Manager: As	hley Giov	vengo		-	Address: 5315 Buena Vista I	Dr		E30	819	36	0	158	-000-	7				x		
Address:	3122 Natio	nal Parks	Hwy		1	City, State, Zip: Carlsbad NM	1, 88220				-	Anal	ysis a	nd Meth	hor						RCRA
City, Stat	te, Zip: Carls	bad NM,	88220		1	Phone: (575)689-7597	N.		by												
Phone: !	575-988-005	5				Email: jim.raley@dvn.com			ORO			-	1.0							State	
Email: a	giovengo@e	nsolum.	com						0/0				0			MN			NM CO	UT AZ	TX
Report d	ue by:								TPH GRO/DRO/ORO by	8015 BTEV hv 8021	VOC by 8260	Metals 6010	Chloride 300.0					¥1	×		
Time	D + C + I + I		No. of	C			La	,	GRC	1 hu	by	als 6	ride			8		S			
Sampled	Date Sampled	Matrix	Containers	Sample ID			Num	ber	TPH	8015 BTEV	Noc	Met	Chlo			BGDOC		GDOC		Remarks	
10:38	8/16/2023	Soil	1 Jar			FS07 - 2'	1	2								x			10		
10:52	8/16/2023	Soil	1 Jar			SW06 - 1'	2									x					
						and the second		10.0		-		-			-	-	-		-		
							A.S.M.	0.05					12								
							and a second	18		-		-		7	-	-	-				
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	-				-		2 Mel										-				
			1					New Y													
											1										4.7
			1					1 Safe	-	-	-	-			-		-	-	-		-
							-											_		_	
	5												5								
Addition	al Instructio	ns: Ple	ase CC: c	burton@en	solum	com, agiovengo@ensolum.co	m, jim.raley@	dvn	n.com,	char	nilton	@en	solur	n.com		-		-			
, (field sam	pler), attest to th	e validity ar	nd authentic	ty of this sample	e. I am a	aware that tampering with or intentionally	mislabelling the s	ample	location	,									aived on ice the day		oled or
	e of collection is c				or legal a	action. Sampled by:	1			_	_	receiv	ed pack	ed in ice at	an ave	g temp a	bove (0 but les	ss than 6 °C on subs	equent days.	
Relinquish	ed by: (Signatur	re)	Date	-17-23	me 7:0	5 Received by (Signature)	Date	73	Tim	ne 3:39	1	Rec	eivec	on ice:	: /	Lab Y	Use	e Only	Y		
Relinquish	ed Signatur	re)	Date	(7-23 TT	163	Beceived by: (Signature)	Bate S.	17.	73 L	le	30	NOR S				2			Т3		
Relinquish	ed by: (Signatur	re)		.18.23		5 Received by: Wignature	Data ZIC	10	z S	1. S	5		Ton	np °C	11						
Sample Ma	trix: S - Soil, Sd - S	folid Se - Sh		5	U.	- una ma	Contra	iner	Type	- 9/2	is not			c, ag - ar		alace		VOA			
Note: Sam	ples are discard	led 30 day	s after resu	lts are reporte	ed unles	ss other arrangements are made. Haz	ardous samples	will b	e return	ned to	client	or dis	oosed	of at the					report for the a	nalysis of t	the above
amples 15	applicable only	to those s	amples rec	erved by the la	aborato	in y with this COC. The hability of the la	boratory is limit	20 10	the amo	ount p	alu for	on th	e repo	nt.			2				

Envirotech Analytical Laboratory

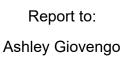
Sample Receipt Checklist (SRC)

Client:	Ensolum, LLC Da	ate Received:	08/18/23	08:15	Work Order ID:	E308136
Phone:	(575) 988-0055 Da	ate Logged In:	08/17/23	16:32	Logged In By:	Caitlin Mars
Email:		le Date:	08/24/23	17:00 (4 day TAT)		
Chain of	f Custody (COC)					
1. Does t	the sample ID match the COC?		Yes			
2. Does t	the number of samples per sampling site location match	the COC	Yes			
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	ne COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes			
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		<u>Commen</u>	s/Resolution
Sample 7	Turn Around Time (TAT)					
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	•					
	sample cooler received?		Yes			
	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?		No			
	s, were custody/security seals intact?		NA			
-	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re-	,	Yes			
13 Ifno	visible ice, record the temperature. Actual sample ter		c			
		nperature. <u>+</u>	<u> </u>			
	Container_ aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample containers	collected?	Yes			
Field La			100			
	field sample labels filled out with the minimum inform	ation:				
	Sample ID?		Yes			
Ι	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	Preservation	10				
	the COC or field labels indicate the samples were prese	rved?	No			
	sample(s) correctly preserved?	1-9	NA N-			
	o filteration required and/or requested for dissolved meta	us <i>?</i>	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphase?		No			
27. If yes	s, does the COC specify which phase(s) is to be analyzed	d?	NA			
Subcont	ract Laboratory_					
28. Are s	samples required to get sent to a subcontract laboratory?		No			

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



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5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Ensolum, LLC

Project Name:

RDX Federal 21 #041

Work Order: E309054

Job Number: 01058-0007

Received: 9/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/13/23

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

Date Reported: 9/13/23

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX Federal 21 #041 Workorder: E309054 Date Received: 9/8/2023 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/8/2023 6:00:00AM, under the Project Name: RDX Federal 21 #041.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #041 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

Field Offices:

Southern New Mexico Area Lynn Jarboe Technical Representative/Client Services

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

Envirotech Web Address: www.envirotech-inc.com



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		Sample Sum	mary	
Ensolum, LLC		Project Name:	RDX Federal 21 #041	Reported:
3122 National Parks Hwy		Project Number:	01058-0007	Reported:
Carlsbad NM, 88220		Project Manager:	Ashley Giovengo	09/13/23 13:57
Client Sample ID	Lab Sample ID	Matrix	Sampled Received	d Container

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
FS07 - 4'	E309054-01A Soil	09/06/23	09/08/23	Glass Jar, 2 oz.
SW06 - 1'	E309054-02A Soil	09/06/23	09/08/23	Glass Jar, 2 oz.



	S	ample D	ata			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numl Project Mana	ber: 0105	K Federal 21 58-0007 ley Gioveng			Reported: 9/13/2023 1:57:35PM
		FS07 - 4'				
		E309054-01				
		Reporting				
Analyte	Result	Limit	Dilu	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: RKS		Batch: 2337004
Benzene	ND	0.0250	1	09/11/23	09/11/23	
Ethylbenzene	ND	0.0250	1	09/11/23	09/11/23	
Toluene	ND	0.0250	1	09/11/23	09/11/23	
p-Xylene	ND	0.0250	1	09/11/23	09/11/23	
o,m-Xylene	ND	0.0500	1	09/11/23	09/11/23	
Total Xylenes	ND	0.0250	1	09/11/23	09/11/23	
Surrogate: Bromofluorobenzene		105 %	70-130	09/11/23	09/11/23	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130	09/11/23	09/11/23	
Surrogate: Toluene-d8		101 %	70-130	09/11/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: RKS		Batch: 2337004
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/23	09/11/23	
Surrogate: Bromofluorobenzene		105 %	70-130	09/11/23	09/11/23	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130	09/11/23	09/11/23	
Surrogate: Toluene-d8		101 %	70-130	09/11/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: KM		Batch: 2337027
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/23	09/13/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/12/23	09/13/23	
Surrogate: n-Nonane		112 %	50-200	09/12/23	09/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: BA		Batch: 2337014
Chloride	353	200	10	0 09/11/23	09/12/23	



envirotech Inc.

Sample Data

	50	ample D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	er: 010:	K Federal 21 58-0007 ley Gioveng			Reported: 9/13/2023 1:57:35PM
		SW06 - 1'				
		E309054-02				
		Reporting				
Analyte	Result	Limit	Dilu	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: RKS		Batch: 2337004
Benzene	ND	0.0250	1	09/11/23	09/12/23	
Ethylbenzene	ND	0.0250	1	09/11/23	09/12/23	
Toluene	ND	0.0250	1	09/11/23	09/12/23	
p-Xylene	ND	0.0250	1	09/11/23	09/12/23	
,m-Xylene	ND	0.0500	1	09/11/23	09/12/23	
Fotal Xylenes	ND	0.0250	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene		110 %	70-130	09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	09/11/23	09/12/23	
Surrogate: Toluene-d8		103 %	70-130	09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: RKS		Batch: 2337004
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene		110 %	70-130	09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	09/11/23	09/12/23	
Surrogate: Toluene-d8		103 %	70-130	09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: KM		Batch: 2337027
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/23	09/13/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/12/23	09/13/23	
urrogate: n-Nonane		112 %	50-200	09/12/23	09/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: BA		Batch: 2337014
Chloride	88.8	40.0	2	09/11/23	09/12/23	



QC Summary Data

	<u><u>v</u>c 51</u>		ii j Duu	•				
	Project Name:	RI	DX Federal 21	#041				Reported:
	Project Number:	01	058-0007					
	Project Manager:	As	shley Gioveng	0			9/	13/2023 1:57:35PM
	Volatile Organic	3	Analyst: RKS					
	Reporting	Spike	Source		Rec		RPD	
Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 09	9/11/23 Ana	lyzed: 09/11/23
ND	0.0250							
ND	0.0250							
ND	0.0250							
ND	0.0250							
ND	0.0500							
ND	0.0250							
0.547		0.500		109	70-130			
		0.500		93.1	70-130			
0.513		0.500		103	70-130			
						Prepared: 0	9/11/23 Ana	lyzed: 09/11/23
2 49	0.0250	2.50		99.4	70-130	1		5
	0.0250							
0.484		0.500		96.7	70-130			
0.501		0.500		100	70-130			
			Source:	E309054-(01	Prepared: 09	9/11/23 Ana	lyzed: 09/11/23
2.51	0.0250	2.50	ND	100	48-131			
	0.0250							
2.49	0.0250	2.50	ND	99.7	48-130			
2.67	0.0250	2.50	ND	107	43-135			
	0.0500							
7.87	0.0250		ND					
0.536		0.500		107	70-130			
0.468		0.500		93.6	70-130			
0.498		0.500		99.6	70-130			
			Source: 1	E309054-0	01	Prepared: 09	9/11/23 Ana	lyzed: 09/12/23
2.50	0.0250	2.50	ND	99.9	48-131	0.400	23	
2.59	0.0250	2.50	ND	104	45-135	0.328	27	
2.49	0.0250	2.50	ND	99.5	48-130	0.221	24	
		2.50	ND	107	43-135	0.430	27	
2.68	0.0250	2.50	ND	107			27	
	0.0250 0.0500	2.50 5.00	ND	105	43-135	0.623	27	
2.68								
2.68 5.23	0.0500	5.00	ND	105	43-135	0.623	27	
2.68 5.23 7.91	0.0500	5.00 7.50	ND	105 105	43-135 43-135	0.623	27	
	Result mg/kg ND ND ND ND ND ND ND 0.547 0.466 0.513 2.49 2.57 2.48 2.67 5.22 7.89 0.527 0.484 0.501 2.51 2.58 2.49 2.57 2.48 0.527 0.484 0.501 2.51 2.58 2.49 2.67 5.20 7.87 0.536 0.468 0.498	Project Name: Project Number: Project Manager: Volatile Organic Result mg/kg Reporting Limit mg/kg ND 0.0250 0.547 0.0250 0.547 0.0250 0.547 0.0250 0.513 0.0250 2.57 0.0250 2.57 0.0250 2.57 0.0250 2.67 0.0250 0.527 0.484 0.501 0.0250 2.58 0.0250 2.67 0.0250 2.67 0.0250 2.67 0.0250 2.50 0.0500 7.87 0.0250 <t< td=""><td>Project Name: RI Project Number: 01 Project Manager: As Volatile Organic Comporting Spike Result Reporting Spike mg/kg mg/kg mg/kg ND 0.0250 mg/kg ND 0.0250 ND 0.547 0.500 0.500 ND 0.0250 0.500 ND 0.0250 0.500 ND 0.0250 0.500 ND 0.0250 2.50 2.57 0.0250 2.50 2.57 0.0250 2.50 2.67 0.0250 7.50 0.522 0.0500 5.00 0.527 0.500 5.50 2.51 0.0250 2.50 2.51 0.0250 2.50 <t< td=""><td>Project Name: RDX Federal 21 01058-0007 Project Manager: Ashley Gioveng Volatile Organic Compounds by EP Result Reporting Limit Spike Level Source Result mg/kg mg/kg mg/kg mg/kg ND 0.0250 ng/kg mg/kg ND 0.0250 nD 0.0250 0.547 0.500 nD 0.0250 0.547 0.0250 2.50 1.50 2.48 0.0250 2.50 1.50 2.57 0.0250 2.50 1.50 2.57 0.500 5.00 7.50 0.527 0.500 5.00 ND 0.527 0.500 1.50 ND 2.58 <</td><td>Project Number: 01058-0007 Project Manager: Ashley Giovengo Volatile Organic Compounds by EPA 82601 Result Reporting Limit Spike Level Source Result Rec MD 0.0250 mg/kg mg/kg % ND 0.0250 mg/kg 109 ND 0.0250 109 ND 0.0250 103 0.547 0.500 103 0.513 0.500 103 2.49 0.0250 2.50 103 2.48 0.0250 2.50 103 2.49 0.0250 2.50 104 7.89 0.0250 2.50 105 0.527 0.500 105 104 7.89 0.0250 2.50 ND 107 0.526 2.50 N</td><td>Project Name: Project Number: Project Manager: RDX Federal 21 #041 01058-0007 Ashley Giovengo Volatile Organic Compounds by EPA 8260B Result mg/kg Reporting Limit mg/kg Spike Source mg/kg Source Result mg/kg Rec % Rec Limits % ND 0.0250 ND 0.0250 % % ND 0.0250 70-130 0.513 0.500 103 70-130 2.49 0.0250 2.50 103 70-130 2.44 0.0250 2.50 103 70-130 2.47 0.0250 2.50 103 70-130 2.48 0.0250 7.50 105 70-130 2.49 0.0250 2.50</td><td>Project Name: RDX Federal 21 #041 Project Number: 01058-0007 Project Manager: Ashley Giovengo Volatile Organic Compounds by EPA 8260B Result Reporting mg/kg Spike mg/kg Source Result Rec Mec Limit RPD MD 0.0250 mg/kg mg/kg % % % ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 Prepared: 0 0.347 0.500 109 70-130 0.466 0.500 99.4 70-130 0.466 0.500 103 70-130 0.466 0.500 103 70-130 2.49 0.0250 2.50 103 70-130 2.48 0.0250 2.50 103 70-130 2.51 0.0250 2.50 103 70-130 2.52 0.500 104 70-130 70-130 2.52 0.500 103</td><td>Project Name: RDX Federal 21 #041 Project Number: 01058-0007 90 Volatile Organic Compounds by EPA 8260B Reporting Spike Source Rec Rep RPD Limit mg/kg mg/kg mg/kg mg/kg mg/kg %</td></t<></td></t<>	Project Name: RI Project Number: 01 Project Manager: As Volatile Organic Comporting Spike Result Reporting Spike mg/kg mg/kg mg/kg ND 0.0250 mg/kg ND 0.0250 ND 0.547 0.500 0.500 ND 0.0250 0.500 ND 0.0250 0.500 ND 0.0250 0.500 ND 0.0250 2.50 2.57 0.0250 2.50 2.57 0.0250 2.50 2.67 0.0250 7.50 0.522 0.0500 5.00 0.527 0.500 5.50 2.51 0.0250 2.50 2.51 0.0250 2.50 <t< td=""><td>Project Name: RDX Federal 21 01058-0007 Project Manager: Ashley Gioveng Volatile Organic Compounds by EP Result Reporting Limit Spike Level Source Result mg/kg mg/kg mg/kg mg/kg ND 0.0250 ng/kg mg/kg ND 0.0250 nD 0.0250 0.547 0.500 nD 0.0250 0.547 0.0250 2.50 1.50 2.48 0.0250 2.50 1.50 2.57 0.0250 2.50 1.50 2.57 0.500 5.00 7.50 0.527 0.500 5.00 ND 0.527 0.500 1.50 ND 2.58 <</td><td>Project Number: 01058-0007 Project Manager: Ashley Giovengo Volatile Organic Compounds by EPA 82601 Result Reporting Limit Spike Level Source Result Rec MD 0.0250 mg/kg mg/kg % ND 0.0250 mg/kg 109 ND 0.0250 109 ND 0.0250 103 0.547 0.500 103 0.513 0.500 103 2.49 0.0250 2.50 103 2.48 0.0250 2.50 103 2.49 0.0250 2.50 104 7.89 0.0250 2.50 105 0.527 0.500 105 104 7.89 0.0250 2.50 ND 107 0.526 2.50 N</td><td>Project Name: Project Number: Project Manager: RDX Federal 21 #041 01058-0007 Ashley Giovengo Volatile Organic Compounds by EPA 8260B Result mg/kg Reporting Limit mg/kg Spike Source mg/kg Source Result mg/kg Rec % Rec Limits % ND 0.0250 ND 0.0250 % % ND 0.0250 70-130 0.513 0.500 103 70-130 2.49 0.0250 2.50 103 70-130 2.44 0.0250 2.50 103 70-130 2.47 0.0250 2.50 103 70-130 2.48 0.0250 7.50 105 70-130 2.49 0.0250 2.50</td><td>Project Name: RDX Federal 21 #041 Project Number: 01058-0007 Project Manager: Ashley Giovengo Volatile Organic Compounds by EPA 8260B Result Reporting mg/kg Spike mg/kg Source Result Rec Mec Limit RPD MD 0.0250 mg/kg mg/kg % % % ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 Prepared: 0 0.347 0.500 109 70-130 0.466 0.500 99.4 70-130 0.466 0.500 103 70-130 0.466 0.500 103 70-130 2.49 0.0250 2.50 103 70-130 2.48 0.0250 2.50 103 70-130 2.51 0.0250 2.50 103 70-130 2.52 0.500 104 70-130 70-130 2.52 0.500 103</td><td>Project Name: RDX Federal 21 #041 Project Number: 01058-0007 90 Volatile Organic Compounds by EPA 8260B Reporting Spike Source Rec Rep RPD Limit mg/kg mg/kg mg/kg mg/kg mg/kg %</td></t<>	Project Name: RDX Federal 21 01058-0007 Project Manager: Ashley Gioveng Volatile Organic Compounds by EP Result Reporting Limit Spike Level Source Result mg/kg mg/kg mg/kg mg/kg ND 0.0250 ng/kg mg/kg ND 0.0250 nD 0.0250 0.547 0.500 nD 0.0250 0.547 0.0250 2.50 1.50 2.48 0.0250 2.50 1.50 2.57 0.0250 2.50 1.50 2.57 0.500 5.00 7.50 0.527 0.500 5.00 ND 0.527 0.500 1.50 ND 2.58 <	Project Number: 01058-0007 Project Manager: Ashley Giovengo Volatile Organic Compounds by EPA 82601 Result Reporting Limit Spike Level Source Result Rec MD 0.0250 mg/kg mg/kg % ND 0.0250 mg/kg 109 ND 0.0250 109 ND 0.0250 103 0.547 0.500 103 0.513 0.500 103 2.49 0.0250 2.50 103 2.48 0.0250 2.50 103 2.49 0.0250 2.50 104 7.89 0.0250 2.50 105 0.527 0.500 105 104 7.89 0.0250 2.50 ND 107 0.526 2.50 N	Project Name: Project Number: Project Manager: RDX Federal 21 #041 01058-0007 Ashley Giovengo Volatile Organic Compounds by EPA 8260B Result mg/kg Reporting Limit mg/kg Spike Source mg/kg Source Result mg/kg Rec % Rec Limits % ND 0.0250 ND 0.0250 % % ND 0.0250 70-130 0.513 0.500 103 70-130 2.49 0.0250 2.50 103 70-130 2.44 0.0250 2.50 103 70-130 2.47 0.0250 2.50 103 70-130 2.48 0.0250 7.50 105 70-130 2.49 0.0250 2.50	Project Name: RDX Federal 21 #041 Project Number: 01058-0007 Project Manager: Ashley Giovengo Volatile Organic Compounds by EPA 8260B Result Reporting mg/kg Spike mg/kg Source Result Rec Mec Limit RPD MD 0.0250 mg/kg mg/kg % % % ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 Prepared: 0 0.347 0.500 109 70-130 0.466 0.500 99.4 70-130 0.466 0.500 103 70-130 0.466 0.500 103 70-130 2.49 0.0250 2.50 103 70-130 2.48 0.0250 2.50 103 70-130 2.51 0.0250 2.50 103 70-130 2.52 0.500 104 70-130 70-130 2.52 0.500 103	Project Name: RDX Federal 21 #041 Project Number: 01058-0007 90 Volatile Organic Compounds by EPA 8260B Reporting Spike Source Rec Rep RPD Limit mg/kg mg/kg mg/kg mg/kg mg/kg %



QC Summary Data

		QC B	uIIIII	ary Data	a				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	DX Federal 21 1058-0007 .shley Gioveng					Reported: 9/13/2023 1:57:35PM
	No	onhalogenated O	rganics	by EPA 801	15D - GR	0			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2337004-BLK1)							Prepared: 0	9/11/23 <i>A</i>	Analyzed: 09/11/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.547		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			
LCS (2337004-BS2)							Prepared: 0	9/11/23 A	Analyzed: 09/11/23
Gasoline Range Organics (C6-C10)	53.3	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.536		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			
Matrix Spike (2337004-MS2)				Source:	E309054-01	1	Prepared: 0	9/11/23 A	Analyzed: 09/12/23
Gasoline Range Organics (C6-C10)	56.4	20.0	50.0	ND	113	70-130			
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.7	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			
Matrix Spike Dup (2337004-MSD2)				Source:	E309054-01	1	Prepared: 0	9/11/23 A	Analyzed: 09/12/23
Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130	5.78	20	
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			



QC Summary Data

		$\mathbf{v} \mathbf{v} \mathbf{v}$	u 111111	ary Data	4				
Ensolum, LLC 3122 National Parks Hwy		Project Name: Project Number:	0	DX Federal 21 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	А	shley Gioveng	0				9/13/2023 1:57:35PM
	Nonha	alogenated Org	anics by	EPA 8015E) - 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 (2337027-BLK1)							Prepared: 0	9/12/23 A	nalyzed: 09/12/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.0		50.0		114	50-200			
LCS (2337027-BS1)							Prepared: 0	9/12/23 A	nalyzed: 09/12/23
Diesel Range Organics (C10-C28)	274	25.0	250		109	38-132			
Surrogate: n-Nonane	54.2		50.0		108	50-200			
Matrix Spike (2337027-MS1)				Source:	E309091-	03	Prepared: 0	9/12/23 A	nalyzed: 09/12/23
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	54.8		50.0		110	50-200			
Matrix Spike Dup (2337027-MSD1)				Source:	E309091-	03	Prepared: 0	9/12/23 A	nalyzed: 09/12/23
Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	38-132	1.15	20	
Surrogate: n-Nonane	56.9		50.0		114	50-200			



QC Summary Data

		$\mathbf{v} \in \mathcal{V}$		ary Date					
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:		RDX Federal 2 01058-0007 Ashley Gioveng					Reported: 9/13/2023 1:57:35PM
		Anions	by EPA	300.0/90564	۸				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2337014-BLK1) Chloride	ND	20.0					Prepared: 0	9/11/23	Analyzed: 09/11/23
LCS (2337014-BS1)							Prepared: 0	9/11/23	Analyzed: 09/11/23
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2337014-MS1)				Source:	E309048-	01	Prepared: 0	9/11/23	Analyzed: 09/11/23
Chloride	248	20.0	250	ND	99.1	80-120			
Matrix Spike Dup (2337014-MSD1)				Source:	E309048-	01	Prepared: 0	9/11/23	Analyzed: 09/12/23
Chloride	250	20.0	250	ND	99.8	80-120	0.756	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.



Γ	Ensolum, LLC	Project Name:	RDX Federal 21 #041	
I	3122 National Parks Hwy	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/13/23 13:57

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Release Project Information

Received by OCD: 9/27/2023 1:40:51 PM

Client: Ensolum, Ll	.C.			Bill To					se On		New Contract			TA	T	EPA P	rogram
Project: RDX Feder	al 21 #041			Attention: Jim Raley		Lab WO	#		Job	Num	ber	1D	2D	3D	Standard	CWA	SDWA
Project Manager: /				Address: 5315 Buena Vista Dr		E30	905	54	010	58.	.0007				x		
Address: 3122 Nat				City, State, Zip: Carlsbad NM, 8	8220				Analy	/sis ar	nd Method	b					RCRA
City, State, Zip: Ca	Isbad NM,	88220		Phone: (575)689-7597		by							1				
Phone: 575-988-00)55			Email: jim.raley@dvn.com		ORO										State	
Email: agiovengo@	ensolum.	com				RO/	11	0		0.0		WN		×	NM CO	UT AZ	TX
Report due by:						0/0	80	826	601(e 30				TX	×		
Time Sampled Date Sample	d Matrix	No. of Containers	Sample ID		Lab Number	TPH GRO/DRO/ORO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	
10:49 9/6/2023	Soil	1 Jar		FS07 - 4'	1							x					
11:30 9/6/2023	Soil	1 Jar		SW06 - 1'	2							x					
					14.45												
																- 1	
Additional Instruct	ions: Plea	ase CC: cl	ourton@ensolu	um.com, agiovengo@ensolum.com,	jim.raley@dv	/n.com, c	hami	lton(@ens	solun	n.com						
date or time of collection	s considered f			am aware that tampering with or intentionally mis al action. <u>Sampled by:</u>	labelling the samp	le location,			the second se			avg ten	np abov	e 0 but le	ceived on ice the day ess than 6 °C on subs		led or
Relinquished by: (Signa	VO	Date 9-	7-23 Time	08 Received by: Signature Curry	- 9-7-	23 D	708	7	Rece	eived	on ice:	K	ab Us	se On	ly		
Relinquished by: (Signa	ure) Myales	_ Date		45 Received by: (Signature)	Date 9-7	·23 1	815	5	<u>T1</u>			<u>T2</u>			<u></u>		
Relinquished by: (Signa	Millo	Pate 9.	8.23 2	430 Cartle Mai	- 9.8.2	3 6	:00	0	AVG	Tem	np°C_	+			e negativa da da se		
Sample Matrix: S - Soil, Sd						r Type: g -											
				nless other arrangements are made. Hazard atory with this COC. The liability of the labor								ent e	xpens	e. The	e report for the a	analysis of t	he above

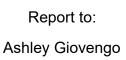
Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	Ensolum, LLC Da	te Received:	09/08/23	06:00	Work Order ID:	E309054
Phone:	(575) 988-0055 Da	te Logged In:	09/07/23	16:34	Logged In By:	Alexa Michaels
Email:	a.giovengo@ensolum.com Du	ie Date:	09/14/23	17:00 (4 day TAT)		
Chain o	f 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 t	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes		Comment	ts/Resolution
Sample	<u>Turn Around Time (TAT)</u>					
6. Did tl	ne COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	Cooler_					
7. Was a	a sample cooler received?		Yes			
8. If yes	, was cooler received in good condition?		Yes			
9. Was t	he sample(s) received intact, i.e., not broken?		Yes			
10. Wer	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was 1	the sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec		Yes			
13. If no	minutes of sampling o visible ice, record the temperature. Actual sample ten	perature: 4°	С			
	Container		-			
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample containers	collected?	Yes			
Field La	abel					
	e field sample labels filled out with the minimum information	ation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes	L		
	Collectors name?		Yes			
-	<u>Preservation</u>	mod?	No			
	s the COC or field labels indicate the samples were prese	iveu?	No NA			
	sample(s) correctly preserved? b filteration required and/or requested for dissolved meta	109	NA No			
		10.	INU			
	nase Sample Matrix					
		10	No			
	es, does the COC specify which phase(s) is to be analyzed	11	NA			
	tract Laboratory		_			
	samples required to get sent to a subcontract laboratory?	1.0	No			
29. Was	a subcontract laboratory specified by the client and if so	who?	NA	Subcontract Lab: NA		

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







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 Feder

RDX Federal 28 #041

Work Order: E308115

Job Number: 01058-0007

Received: 8/16/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/22/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 8/22/23

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX Federal 28 #041 Workorder: E308115 Date Received: 8/16/2023 8:05:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/16/2023 8:05:00AM, under the Project Name: RDX Federal 28 #041.

The analytical test results summarized in this report with the Project Name: RDX Federal 28 #041 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

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Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@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

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

Envirotech Web Address: www.envirotech-inc.com



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Sample Summarv

		Sample Sum	mary		
Ensolum, LLC	Project Name:	RDX Federal 28 #0	041	Reported:	
3122 National Parks Hwy		Project Number:	01058-0007		
Carlsbad NM, 88220			08/22/23 15:26		
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S01 - 0'	E308115-01A	Soil	08/14/23	08/16/23	Glass Jar, 2 oz.
S02B - 0'	E308115-02A	Soil	08/14/23	08/16/23	Glass Jar, 2 oz.
S03A - 0'	E308115-03A	Soil	08/14/23	08/16/23	Glass Jar, 2 oz.
504 - 0'	E308115-04A	Soil	08/14/23	08/16/23	Glass Jar, 2 oz.
805 - 0'	E308115-05A	Soil	08/14/23	08/16/23	Glass Jar, 2 oz.
506 - 0'	E308115-06A	Soil	08/14/23	08/16/23	Glass Jar, 2 oz.
S07 - 0'	E308115-07A	Soil	08/14/23	08/16/23	Glass Jar, 2 oz.
H02 - 3'	E308115-08A	Soil	08/14/23	08/16/23	Glass Jar, 2 oz.
H02 - 4'	E308115-09A	Soil	08/14/23	08/16/23	Glass Jar, 2 oz.
H01 - 2'	E308115-10A	Soil	08/14/23	08/16/23	Glass Jar, 2 oz.



		impic D				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	er: 0103	K Federal 28 58-0007 ley Giovengo			Reported: 8/22/2023 3:26:44PM
		SS01 - 0'				
		E308115-01				
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	nalyst: RKS		Batch: 2333044
Benzene	ND	0.0250	1	08/16/23	08/17/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/17/23	
Toluene	ND	0.0250	1	08/16/23	08/17/23	
o-Xylene	ND	0.0250	1	08/16/23	08/17/23	
p,m-Xylene	ND	0.0500	1	08/16/23	08/17/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/17/23	
Surrogate: Bromofluorobenzene		118 %	70-130	08/16/23	08/17/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	08/16/23	08/17/23	
Surrogate: Toluene-d8		106 %	70-130	08/16/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2333044
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/17/23	
Surrogate: Bromofluorobenzene		118 %	70-130	08/16/23	08/17/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	08/16/23	08/17/23	
Surrogate: Toluene-d8		106 %	70-130	08/16/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: JL		Batch: 2333057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/22/23	
Surrogate: n-Nonane		90.5 %	50-200	08/17/23	08/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2333063
Chloride	191	20.0	1	08/17/23	08/18/23	



	5	ample D	ata			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numb Project Mana	ber: 010	X Federal 28 58-0007 ley Giovenge			Reported: 8/22/2023 3:26:44PM
	Troject Miana	-	ley Gloveng	5		0,22,2025 01201111
		SS02B - 0'				
		E308115-02				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2333044
Benzene	ND	0.0250	1	08/16/23	08/17/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/17/23	
Toluene	ND	0.0250	1	08/16/23	08/17/23	
o-Xylene	ND	0.0250	1	08/16/23	08/17/23	
o,m-Xylene	ND	0.0500	1	08/16/23	08/17/23	
Fotal Xylenes	ND	0.0250	1	08/16/23	08/17/23	
Surrogate: Bromofluorobenzene		117 %	70-130	08/16/23	08/17/23	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	08/16/23	08/17/23	
urrogate: Toluene-d8		107 %	70-130	08/16/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2333044
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/17/23	
Surrogate: Bromofluorobenzene		117 %	70-130	08/16/23	08/17/23	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	08/16/23	08/17/23	
Surrogate: Toluene-d8		107 %	70-130	08/16/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: JL		Batch: 2333057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/22/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/22/23	
Surrogate: n-Nonane		94.7 %	50-200	08/17/23	08/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2333063
Chloride	186	40.0	2	08/17/23	08/18/23	



		imple D					
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	r: 010:	K Federal 28 58-0007 ley Gioveng				Reported: 8/22/2023 3:26:44PM
		SS03A - 0'					
]	E308115-03					
		Reporting					
Analyte	Result	Limit	Dilu	tion P	repared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS			Batch: 2333044
Benzene	ND	0.0250	1	0	8/16/23	08/17/23	
Ethylbenzene	ND	0.0250	1	0	8/16/23	08/17/23	
Toluene	ND	0.0250	1	0	8/16/23	08/17/23	
p-Xylene	ND	0.0250	1	0	8/16/23	08/17/23	
o,m-Xylene	ND	0.0500	1	0	8/16/23	08/17/23	
Total Xylenes	ND	0.0250	1	0	8/16/23	08/17/23	
Surrogate: Bromofluorobenzene		121 %	70-130	0	8/16/23	08/17/23	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	0	8/16/23	08/17/23	
Surrogate: Toluene-d8		105 %	70-130	0	8/16/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2333044
Gasoline Range Organics (C6-C10)	ND	20.0	1	0	8/16/23	08/17/23	
Surrogate: Bromofluorobenzene		121 %	70-130	0	8/16/23	08/17/23	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	0	8/16/23	08/17/23	
Surrogate: Toluene-d8		105 %	70-130	0	8/16/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL			Batch: 2333057
Diesel Range Organics (C10-C28)	ND	25.0	1	0	8/17/23	08/19/23	
Dil Range Organics (C28-C36)	ND	50.0	1	0	8/17/23	08/19/23	
Surrogate: n-Nonane		84.1 %	50-200	0	8/17/23	08/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA			Batch: 2333063
Chloride	145	20.0	1	0	8/17/23	08/18/23	



	5	ample D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numb Project Manaş	er: 0103	X Federal 28 58-0007 ley Gioveng			Reported: 8/22/2023 3:26:44PM
		SS04 - 0'				
		E308115-04				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2333044
Benzene	ND	0.0250	1	08/16/23	08/17/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/17/23	
Toluene	ND	0.0250	1	08/16/23	08/17/23	
p-Xylene	ND	0.0250	1	08/16/23	08/17/23	
o,m-Xylene	ND	0.0500	1	08/16/23	08/17/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/17/23	
Surrogate: Bromofluorobenzene		117 %	70-130	08/16/23	08/17/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	08/16/23	08/17/23	
Surrogate: Toluene-d8		105 %	70-130	08/16/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: RKS		Batch: 2333044
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/17/23	
Surrogate: Bromofluorobenzene		117 %	70-130	08/16/23	08/17/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	08/16/23	08/17/23	
Surrogate: Toluene-d8		105 %	70-130	08/16/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	4	Analyst: JL		Batch: 2333057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/19/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/19/23	
Surrogate: n-Nonane		89.8 %	50-200	08/17/23	08/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: BA		Batch: 2333063
Chloride	268	20.0	1	08/17/23	08/18/23	



		ample D	uu			
Ensolum, LLC	Project Name:		K Federal 28	#041		
3122 National Parks Hwy	Project Numbe		58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Gioveng	0		8/22/2023 3:26:44PM
		SS05 - 0'				
		E308115-05				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: RKS		Batch: 2333044
Benzene	ND	0.0250	1	08/16/23	08/17/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/17/23	
Toluene	ND	0.0250	1	08/16/23	08/17/23	
p-Xylene	ND	0.0250	1	08/16/23	08/17/23	
p,m-Xylene	ND	0.0500	1	08/16/23	08/17/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/17/23	
Surrogate: Bromofluorobenzene		117 %	70-130	08/16/23	08/17/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	08/16/23	08/17/23	
Surrogate: Toluene-d8		106 %	70-130	08/16/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	analyst: RKS		Batch: 2333044
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/17/23	
Surrogate: Bromofluorobenzene		117 %	70-130	08/16/23	08/17/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	08/16/23	08/17/23	
Surrogate: Toluene-d8		106 %	70-130	08/16/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORC) mg/kg	mg/kg	I	analyst: JL		Batch: 2333057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/19/23	
Surrogate: n-Nonane		87.4 %	50-200	08/17/23	08/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: BA		Batch: 2333063
Chloride	201	20.0	1	08/17/23	08/18/23	



	D.	ample D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	er: 010:	X Federal 28 58-0007 ley Gioveng			Reported: 8/22/2023 3:26:44PM
		SS06 - 0'				
		E308115-06				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: RKS		Batch: 2333044
Benzene	ND	0.0250	1	08/16/23	08/17/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/17/23	
Toluene	ND	0.0250	1	08/16/23	08/17/23	
p-Xylene	ND	0.0250	1	08/16/23	08/17/23	
p,m-Xylene	ND	0.0500	1	08/16/23	08/17/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/17/23	
Surrogate: Bromofluorobenzene		117 %	70-130	08/16/23	08/17/23	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	08/16/23	08/17/23	
Surrogate: Toluene-d8		107 %	70-130	08/16/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: RKS		Batch: 2333044
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/17/23	
Surrogate: Bromofluorobenzene		117 %	70-130	08/16/23	08/17/23	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	08/16/23	08/17/23	
Surrogate: Toluene-d8		107 %	70-130	08/16/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2333057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/19/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/19/23	
Surrogate: n-Nonane		91.4 %	50-200	08/17/23	08/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: BA		Batch: 2333063
Chloride	215	20.0	1	08/17/23	08/18/23	



	5	ample D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 0105	X Federal 28 58-0007 ley Gioveng			Reported: 8/22/2023 3:26:44PM
		SS07 - 0'				
		E308115-07				
		Reporting				
Analyte	Result	Limit	Dilu	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2333044
Benzene	ND	0.0250	1	08/16/23	08/17/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/17/23	
Toluene	ND	0.0250	1	08/16/23	08/17/23	
o-Xylene	ND	0.0250	1	08/16/23	08/17/23	
o,m-Xylene	ND	0.0500	1	08/16/23	08/17/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/17/23	
Surrogate: Bromofluorobenzene		120 %	70-130	08/16/23	08/17/23	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	08/16/23	08/17/23	
Surrogate: Toluene-d8		106 %	70-130	08/16/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2333044
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/17/23	
Surrogate: Bromofluorobenzene		120 %	70-130	08/16/23	08/17/23	
'urrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	08/16/23	08/17/23	
urrogate: Toluene-d8		106 %	70-130	08/16/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2333057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/19/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/19/23	
urrogate: n-Nonane		83.3 %	50-200	08/17/23	08/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2333063
Chloride	27.7	20.0	1	08/17/23	08/18/23	



	5	ample D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 0103	X Federal 28 58-0007 ley Gioveng			Reported: 8/22/2023 3:26:44PM
		PH02 - 3'				
		E308115-08				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: RKS		Batch: 2333044
Benzene	ND	0.0250	1	08/16/23	08/17/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/17/23	
Toluene	ND	0.0250	1	08/16/23	08/17/23	
p-Xylene	ND	0.0250	1	08/16/23	08/17/23	
o,m-Xylene	ND	0.0500	1	08/16/23	08/17/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/17/23	
Surrogate: Bromofluorobenzene		117 %	70-130	08/16/23	08/17/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	08/16/23	08/17/23	
Surrogate: Toluene-d8		107 %	70-130	08/16/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	analyst: RKS		Batch: 2333044
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/17/23	
Surrogate: Bromofluorobenzene		117 %	70-130	08/16/23	08/17/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	08/16/23	08/17/23	
Surrogate: Toluene-d8		107 %	70-130	08/16/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	4	analyst: JL		Batch: 2333057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/19/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/19/23	
Surrogate: n-Nonane		79.0 %	50-200	08/17/23	08/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	analyst: BA		Batch: 2333063
Chloride	69.1	20.0	1	08/17/23	08/18/23	



	5	ample D	ata			
Ensolum, LLC	Project Name		K Federal 28	#041		
3122 National Parks Hwy	Project Numb		58-0007			Reported:
Carlsbad NM, 88220	Project Mana	iger: Ash	ley Giovengo)		8/22/2023 3:26:44PM
		PH01 - 2'				
		E308115-10				
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	nalyst: RKS		Batch: 2333044
Benzene	ND	0.0250	1	08/16/23	08/17/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/17/23	
Toluene	ND	0.0250	1	08/16/23	08/17/23	
p-Xylene	ND	0.0250	1	08/16/23	08/17/23	
o,m-Xylene	ND	0.0500	1	08/16/23	08/17/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/17/23	
Surrogate: Bromofluorobenzene		117 %	70-130	08/16/23	08/17/23	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	08/16/23	08/17/23	
Surrogate: Toluene-d8		106 %	70-130	08/16/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	nalyst: RKS		Batch: 2333044
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/17/23	
Surrogate: Bromofluorobenzene		117 %	70-130	08/16/23	08/17/23	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	08/16/23	08/17/23	
Surrogate: Toluene-d8		106 %	70-130	08/16/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	А	nalyst: JL		Batch: 2333057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/19/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/19/23	
Surrogate: n-Nonane		87.4 %	50-200	08/17/23	08/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	nalyst: BA		Batch: 2333063
Chloride	742	400	20	08/17/23	08/18/23	



QC Summary Data

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Ensolum, LLC 3122 National Parks Hwy		Project Name: Project Number:		OX Federal 28 058-0007	#041				Reported:
Carlsbad NM, 88220		Project Manager:		hley Gioveng	0			8/	22/2023 3:26:44PM
		Volatile Organic			Analyst: RKS				
			•	Source				RPD	Anaryst. ICICS
Analyte	Result	Reporting Limit	Spike Level	Result	Rec	Rec Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2333044-BLK1)							Prepared: 0	8/16/23 Ana	lyzed: 08/17/23
Benzene	ND	0.0250							-
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.3	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			
LCS (2333044-BS1)							Prepared: 0	8/16/23 Ana	lyzed: 08/17/23
Benzene	2.44	0.0250	2.50		97.5	70-130			
Ethylbenzene	2.45	0.0250	2.50		97.9	70-130			
Toluene	2.44	0.0250	2.50		97.5	70-130			
p-Xylene	2.56	0.0250	2.50		102	70-130			
p,m-Xylene	5.13	0.0500	5.00		103	70-130			
Total Xylenes	7.69	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.601		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			
Matrix Spike (2333044-MS1)				Source:	E308115-(03	Prepared: 0	8/16/23 Ana	lyzed: 08/17/23
Benzene	2.42	0.0250	2.50	ND	96.7	48-131			
Ethylbenzene	2.40	0.0250	2.50	ND	96.0	45-135			
Toluene	2.38	0.0250	2.50	ND	95.2	48-130			
p-Xylene	2.54	0.0250	2.50	ND	101	43-135			
p,m-Xylene	5.06	0.0500	5.00	ND	101	43-135			
Total Xylenes	7.60	0.0250	7.50	ND	101	43-135			
Surrogate: Bromofluorobenzene	0.606		0.500		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			
Surrogate: Toluene-d8 Matrix Spike Dup (2333044-MSD1)			0.500	Source:]	106 E308115-(Prepared: 0	8/16/23 Ana	lyzed: 08/17/23
-	0.528	0.0250	0.500	Source: ND	E308115-(96.9	48-131	0.248	23	lyzed: 08/17/23
Matrix Spike Dup (2333044-MSD1)	0.528	0.0250			E308115-(03	-		lyzed: 08/17/23
Matrix Spike Dup (2333044-MSD1) Benzene	0.528		2.50	ND	E308115-(96.9	48-131	0.248	23	lyzed: 08/17/23
Matrix Spike Dup (2333044-MSD1) Benzene Ethylbenzene	0.528 2.42 2.46	0.0250	2.50 2.50	ND ND	E308115-(96.9 98.4	03 48-131 45-135	0.248 2.53	23 27	lyzed: 08/17/23
Matrix Spike Dup (2333044-MSD1) Benzene Ethylbenzene Toluene	0.528 2.42 2.46 2.44	0.0250 0.0250	2.50 2.50 2.50	ND ND ND	E308115-(96.9 98.4 97.5	03 48-131 45-135 48-130	0.248 2.53 2.35	23 27 24	lyzed: 08/17/23
Matrix Spike Dup (2333044-MSD1) Benzene Ethylbenzene Toluene p-Xylene	0.528 2.42 2.46 2.44 2.58	0.0250 0.0250 0.0250	2.50 2.50 2.50 2.50	ND ND ND ND	E308115-(96.9 98.4 97.5 103	03 48-131 45-135 48-130 43-135	0.248 2.53 2.35 1.86	23 27 24 27	lyzed: 08/17/23
Matrix Spike Dup (2333044-MSD1) Benzene Ethylbenzene Toluene o-Xylene p,m-Xylene	0.528 2.42 2.46 2.44 2.58 5.16	0.0250 0.0250 0.0250 0.0500	2.50 2.50 2.50 2.50 5.00	ND ND ND ND	E308115-(96.9 98.4 97.5 103 103	48-131 45-135 48-130 43-135 43-135	0.248 2.53 2.35 1.86 1.94	23 27 24 27 27	lyzed: 08/17/23
Matrix Spike Dup (2333044-MSD1) Benzene Ethylbenzene Toluene o-Xylene p,m-Xylene Total Xylenes	0.528 2.42 2.46 2.44 2.58 5.16 7.74	0.0250 0.0250 0.0250 0.0500	2.50 2.50 2.50 2.50 5.00 7.50	ND ND ND ND	E308115-(96.9 98.4 97.5 103 103 103	03 48-131 45-135 48-130 43-135 43-135 43-135	0.248 2.53 2.35 1.86 1.94	23 27 24 27 27	lyzed: 08/17/23



QC Summary Data

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Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX Federal 28 1058-0007 Ashley Gioveng					Reported: 8/22/2023 3:26:44PM	
	No	onhalogenated O	rganics	by EPA 801	15D - GF	RO		Analyst: RKS		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2333044-BLK1)							Prepared: 0	8/16/23 A	Analyzed: 08/17/23	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.3	70-130				
Surrogate: Toluene-d8	0.536		0.500		107	70-130				
LCS (2333044-BS2)							Prepared: 0	8/16/23 A	Analyzed: 08/17/23	
Gasoline Range Organics (C6-C10)	54.5	20.0	50.0		109	70-130				
Surrogate: Bromofluorobenzene	0.598		0.500		120	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130				
Surrogate: Toluene-d8	0.534		0.500		107	70-130				
Matrix Spike (2333044-MS2)				Source:	E308115-0	3	Prepared: 0	8/16/23 A	Analyzed: 08/17/23	
Gasoline Range Organics (C6-C10)	53.5	20.0	50.0	ND	107	70-130				
Surrogate: Bromofluorobenzene	0.592		0.500		118	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130				
Surrogate: Toluene-d8	0.537		0.500		107	70-130				
Matrix Spike Dup (2333044-MSD2)				Source:	E308115-0	3	Prepared: 0	8/16/23 A	Analyzed: 08/17/23	
Gasoline Range Organics (C6-C10)	54.2	20.0	50.0	ND	108	70-130	1.19	20		
Surrogate: Bromofluorobenzene	0.593		0.500		119	70-130				
			0.500		011	70 120				
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130				



QC Summary Data

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Ensolum, LLC 3122 National Parks Hwy		Project Name: Project Number:	0	RDX Federal 28 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	А	Ashley Gioveng	go				8/22/2023 3:26:44PM
	Nonha	alogenated Org	anics by	EPA 8015I) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2333057-BLK1)							Prepared: 0	8/17/23 A	Analyzed: 08/18/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.0		50.0		97.9	50-200			
LCS (2333057-BS1)							Prepared: 0	8/17/23 A	Analyzed: 08/18/23
Diesel Range Organics (C10-C28)	240	25.0	250		96.2	38-132			
Surrogate: n-Nonane	46.4		50.0		92.9	50-200			
Matrix Spike (2333057-MS1)				Source:	E308115-	03	Prepared: 0	8/17/23 A	Analyzed: 08/18/23
Diesel Range Organics (C10-C28)	231	25.0	250	ND	92.2	38-132			
Surrogate: n-Nonane	40.0		50.0		80.1	50-200			
Matrix Spike Dup (2333057-MSD1)				Source:	E308115-	03	Prepared: 0	8/17/23 A	Analyzed: 08/18/23
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.5	38-132	2.39	20	
Surrogate: n-Nonane	42.3		50.0		84.6	50-200			



QC Summary Data

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Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager	(RDX Federal 23)1058-0007 Ashley Gioveng					Reported: 8/22/2023 3:26:44PM
		Anions	by EPA	300.0/9056	4				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2333063-BLK1)							Prepared: 0	8/17/23	Analyzed: 08/17/23
Chloride LCS (2333063-BS1)	ND	20.0					Prepared: 0	8/17/23	Analyzed: 08/17/23
Chloride	265	20.0	250	G	106	90-110	D 10	0/17/00	A 1 1 00/17/22
Matrix Spike (2333063-MS1)					E308112-0	-	Prepared: 0	8/1//23	Analyzed: 08/17/23
Chloride	802	200	250	567 Sauraaa	93.8	80-120	Duonous d: O	0/17/00	A malward, 08/17/22
Matrix Spike Dup (2333063-MSD1)					E308112-0		-		Analyzed: 08/17/23
Chloride	798	200	250	567	92.2	80-120	0.503	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.



Γ	Ensolum, LLC	Project Name:	RDX Federal 28 #041	
	3122 National Parks Hwy	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/22/23 15:26

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Release

Page _____ of ____

Received by OCD: 9/27/2023 1:40:51 PM

	nsolum, LLC.				Bill To	1			Lab L	lse Or	nly		1	1	T	AT		EPA P	rogram
	RDX Federal			11	Attention: Jim Raley		Lab W)#	-	Job	Num	ber _	1D	2D	3D	Star	ndard	CWA	SDWA
	lanager: Ash				Address: 5315 Buena Vista Dr		E30	11 8	5	OIC	158-	.0007					х		
ddress:	3122 Nation	al Parks	Hwy		City, State, Zip: Carlsbad NM, 8	88220						nd Metho	d				St. and		RCRA
ity, State	e, Zip: Carlst	bad NM,	88220		Phone: (575)689-7597		by										- 1		
	75-988-0055				Email: jim.raley@dvn.com		ORO											State	
mail: ag	giovengo@er	solum.c	om				RO/O	-			0.0		WN		~	N	M CO	UT AZ	TX
eport du	ue by:						0/0	802	826(6010	300.0				ТX		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	TPH GRO/DRO/ORO by	8015 BTFX hv 8021	VOC by 8260	Metals	Chloride :		BGDOC		GDOC			Remarks	
13:00	8/14/2023	Soil	1 Jar		SS01 - 0'	1							x					1	
14:39	8/14/2023	Soil	1 Jar	1	SS02B - 0'	2							x						
14:13	8/14/2023	Soil	1 Jar		SS03A - 0'	3							x						
13:15	8/14/2023	Soil	1 Jar		SS04 - 0'	4							x						
13:25	8/14/2023	Soil	1 Jar		SS05 - 0'	5							x						
13:26	8/14/2023	Soil	1 Jar		SS06 - 0'	6							x						
13:28	8/14/2023	Soil	1 Jar		SS07 - 0'	7							x						
12:04	8/14/2023	Soil	1 Jar		PH02 - 3'	8							x						
12:12	8/14/2023	Soil	1 Jar		PH02 - 4'	9							x			Do	o not run unles	s PHO2 - 3' is > 1	LOOTPH or 60
11:20	8/14/2023	Soil	1 Jar		PH01 - 2'	10							x						
					n.com, agiovengo@ensolum.com,			ham	hilton										
ate or time	of collection is co	onsidered fr	aud and may	y be grounds for legal								ring thermal p ed in ice at an	avg ter	mp abov	e 0 but l	ess than 6			led or
elinquiste	d by: Signatur	S	Date Date	15/23 10:5	Dam (and by: (Signature) Cam (and children) (Alton (Signature)	~ 815.2 C B.11	Tim	le	50		eived	on ice:			se On				
elinquishe	d by: (Signatur	mes		15.23 (10 .16.23 01	30 Received by signature	~ Date	13 X	· 0	30	T1	Terr	np °C_	T2 7	and the		<u> </u>	3		
1 41.0	ix: S - Soil, Sd - So	olid, Sg - Slue	dge, A - Aque	eous, O - Other		Container	Type: g	- glas	ss. p - 1			in management of the second	per gl	ass. v	- VOA	A	L	and the second	- W - ander
ote: Samp	les are discard	ed 30 days	after result	ts are reported unle	ss other arrangements are made. Hazard bry with this COC. The liability of the labor	ous samples will I	be return	ed to d	client o	r dispo	osed c	of at the clie	ent ex	kpense	. The	report	for the ar	alysis of th	ne above

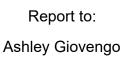
Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

lient:	Ensolum, LLC Da	te Received:	08/16/23 08:	05	Work Order ID: E308115
Phone:	(575) 988-0055 Da	te Logged In:	08/15/23 15:	52	Logged In By: Caitlin Mars
Email:		e Date:	08/22/23 17:	:00 (4 day TAT)	
Chain o	f Custody (COC)				
1. Does	the sample ID match the COC?		Yes		
	the number of samples per sampling site location match t	the COC	Yes		
3. Were	samples dropped off by client or carrier?		Yes	Carrier: (<u>Courier</u>
4. Was th	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes		
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes		Comments/Resolution
Sample	Turn Around Time (TAT)				
	ne COC indicate standard TAT, or Expedited TAT?		Yes		COC Remarks: E308115-09A Sample ID
Sample	Cooler				PH02-4 (Do not run unless E308115-08A
7. Was a	a sample cooler received?		Yes		Sample ID PH02-3 is >100 TPH or 600 Cl
8. If yes	, was cooler received in good condition?		Yes		
9. Was ti	he sample(s) received intact, i.e., not broken?		Yes		/
10. Were	e custody/security seals present?		No		
11. If ye	s, were custody/security seals intact?		NA		
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec		Yes		
	minutes of sampling		~		
13. If no	o visible ice, record the temperature. Actual sample tem	nperature: <u>4°</u>	<u>'C</u>		
	Container				
	aqueous VOC samples present?		No		
	VOC samples collected in VOA Vials?		NA		
	e head space less than 6-8 mm (pea sized or less)?		NA		
	a trip blank (TB) included for VOC analyses?		NA		
	non-VOC samples collected in the correct containers?	a a 11 a ata d 9	Yes		
	e appropriate volume/weight or number of sample containers	conceled?	Yes		
Field La	a <u>ber</u> e field sample labels filled out with the minimum informa	ation			
	Sample ID?		Yes		
	Date/Time Collected?		Yes		
(Collectors name?		No		
_	Preservation				
	s the COC or field labels indicate the samples were prese	rved?	No		
	sample(s) correctly preserved?	1.0	NA		
	b filteration required and/or requested for dissolved meta	IS?	No		
	ase Sample Matrix				
	s the sample have more than one phase, i.e., multiphase?		No		
27. If ye	es, does the COC specify which phase(s) is to be analyzed	1?	NA		
	tract Laboratory_				
	samples required to get sent to a subcontract laboratory?		No		
20 Was	a subcontract laboratory specified by the client and if so	who?	NA S	ubcontract Lal	h: NA



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5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Ensolum, LLC

Project Name:

RDX Federal 21 #042

Work Order: E308126

Job Number: 01058-0007

Received: 8/17/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/22/23

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

Date Reported: 8/22/23

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX Federal 21 #042 Workorder: E308126 Date Received: 8/17/2023 8:00:00AM

Ashley Giovengo,



Page 162 of 264

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/17/2023 8:00:00AM, under the Project Name: RDX Federal 21 #042.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #042 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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		Sample Sum	mary		
Ensolum, LLC		Project Name:	RDX Federal 21 #04	42	Reported:
3122 National Parks Hwy		Project Number:	01058-0007		керогеи:
Carlsbad NM, 88220		Project Manager:	Ashley Giovengo		08/22/23 16:03
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS22 - 2'	E308126-01A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
FS23 - 2'	E308126-02A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
SW01 - 1'	E308126-03A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.
SW03 - 1'	E308126-04A	Soil	08/15/23	08/17/23	Glass Jar, 2 oz.

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C



	5	ampic D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numb Project Manaş	er: 010:	K Federal 21 #04 58-0007 ley Giovengo	12		Reported: 8/22/2023 4:03:06PM
		FS22 - 2'				
		E308126-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: RKS		Batch: 2333052
Benzene	ND	0.0250	1	08/17/23	08/17/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/17/23	
Toluene	ND	0.0250	1	08/17/23	08/17/23	
-Xylene	ND	0.0250	1	08/17/23	08/17/23	
o,m-Xylene	ND	0.0500	1	08/17/23	08/17/23	
Total Xylenes	ND	0.0250	1	08/17/23	08/17/23	
urrogate: 4-Bromochlorobenzene-PID		94.7 %	70-130	08/17/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2333052
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/17/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	70-130	08/17/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: JL		Batch: 2333057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/18/23	
Surrogate: n-Nonane		92.6 %	50-200	08/17/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2333064
Chloride	113	20.0	1	08/17/23	08/20/23	



	5	ampie D	ata			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	er: 010:	K Federal 21 #04 58-0007 ley Giovengo	2		Reported: 8/22/2023 4:03:06PM
		FS23 - 2'				
		E308126-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2333052
Benzene	ND	0.0250	1	08/17/23	08/17/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/17/23	
Toluene	ND	0.0250	1	08/17/23	08/17/23	
o-Xylene	ND	0.0250	1	08/17/23	08/17/23	
o,m-Xylene	ND	0.0500	1	08/17/23	08/17/23	
Fotal Xylenes	ND	0.0250	1	08/17/23	08/17/23	
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	08/17/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2333052
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	08/17/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2333057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/18/23	
Surrogate: n-Nonane		94.7 %	50-200	08/17/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2333064
Chloride	382	20.0	1	08/17/23	08/20/23	



	5	ample D	ala			
Ensolum, LLC	Project Name: Project Numb		X Federal 21 # 58-0007	042		Denertede
3122 National Parks Hwy Carlsbad NM, 88220	Project Numb		ley Giovengo			Reported: 8/22/2023 4:03:06PM
		SW01 - 1'				
		E308126-03				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2333052
Benzene	ND	0.0250	1	08/17/23	08/17/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/17/23	
Toluene	ND	0.0250	1	08/17/23	08/17/23	
p-Xylene	ND	0.0250	1	08/17/23	08/17/23	
o,m-Xylene	ND	0.0500	1	08/17/23	08/17/23	
Fotal Xylenes	ND	0.0250	1	08/17/23	08/17/23	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	08/17/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2333052
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.0 %	70-130	08/17/23	08/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2333057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/18/23	
Surrogate: n-Nonane		96.4 %	50-200	08/17/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2333064
Chloride	220	20.0	1	08/17/23	08/20/23	



	b	ample D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numb Project Mana	ber: 010	X Federal 21 # 58-0007 ley Giovengo	042		Reported: 8/22/2023 4:03:06PM
		SW03 - 1'				
		E308126-04				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2333052
Benzene	ND	0.0250	1	08/17/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/17/23	08/18/23	
Toluene	ND	0.0250	1	08/17/23	08/18/23	
o-Xylene	ND	0.0250	1	08/17/23	08/18/23	
o,m-Xylene	ND	0.0500	1	08/17/23	08/18/23	
Fotal Xylenes	ND	0.0250	1	08/17/23	08/18/23	
Surrogate: 4-Bromochlorobenzene-PID		93.5 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2333052
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/17/23	08/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.1 %	70-130	08/17/23	08/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2333057
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/18/23	
Surrogate: n-Nonane		92.0 %	50-200	08/17/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2333064
Chloride	98.4	20.0	1	08/17/23	08/20/23	



QC Summary Data

		QC D		iny Dat	a				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	DX Federal 2 1058-0007 shley Gioveng					Reported: 8/22/2023 4:03:06PM
	Volatile Organics by EPA 8021B								Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2333052-BLK1)							Prepared: 0	8/17/23 A	nalyzed: 08/17/23
Benzene	ND	0.0250					1		,
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
p,m-Aylene Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.59	0.0250	8.00		94.9	70-130			
LCS (2333052-BS1)							Prepared: 0	8/17/23 A	analyzed: 08/17/23
Benzene	4.59	0.0250	5.00		91.8	70-130			
Ethylbenzene	4.58	0.0250	5.00		91.5	70-130			
Toluene	4.63	0.0250	5.00		92.6	70-130			
o-Xylene	4.61	0.0250	5.00		92.3	70-130			
p,m-Xylene	9.35	0.0500	10.0		93.5	70-130			
Total Xylenes	14.0	0.0250	15.0		93.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.8	70-130			
Matrix Spike (2333052-MS1)				Source:	E308121-	02	Prepared: 0	8/17/23 A	nalyzed: 08/17/23
Benzene	5.10	0.0250	5.00	ND	102	54-133			
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133			
Toluene	5.14	0.0250	5.00	ND	103	61-130			
o-Xylene	5.11	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			
Matrix Spike Dup (2333052-MSD1)				Source:	E308121-	02	Prepared: 0	8/17/23 A	analyzed: 08/17/23
Benzene	4.59	0.0250	5.00	ND	91.8	54-133	10.5	20	
Ethylbenzene	4.53	0.0250	5.00	ND	90.6	61-133	11.5	20	
Toluene	4.60	0.0250	5.00	ND	92.0	61-130	11.1	20	
o-Xylene	4.54	0.0250	5.00	ND	90.8	63-131	11.8	20	
						(2,121	11.5	20	
p,m-Xylene	9.25	0.0500	10.0	ND	92.5	63-131	11.5	20	
-	9.25 13.8	0.0500 0.0250	10.0 15.0	ND ND	92.5 91.9	63-131 63-131	11.5	20 20	



QC Summary Data

		QC D	umm	ary Data	u				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager	(RDX Federal 21 01058-0007 Ashley Gioveng					Reported: 8/22/2023 4:03:06PM
Caliboad (Wi, 66220	Nor	halogenated (RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2333052-BLK1)							Prepared: 0	8/17/23 A	nalyzed: 08/17/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			
LCS (2333052-BS2)							Prepared: 0	8/17/23 A	nalyzed: 08/17/23
Gasoline Range Organics (C6-C10)	49.7	20.0	50.0		99.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			
Matrix Spike (2333052-MS2)				Source:	E308121-	02	Prepared: 0	8/17/23 A	nalyzed: 08/17/23
Gasoline Range Organics (C6-C10)	47.7	20.0	50.0	ND	95.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130			
Matrix Spike Dup (2333052-MSD2)				Source:	E308121-	02	Prepared: 0	8/17/23 A	nalyzed: 08/17/23
Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130	5.33	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.2	70-130			



QC Summary Data

		QC DI	u 111 111	ary Data	L				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(RDX Federal 21 01058-0007 Ashley Gioveng					Reported: 8/22/2023 4:03:06PM
	Nonha	alogenated Orga	anics by	y EPA 8015D	- DRO	/ORO			Analyst: JL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2333057-BLK1)							Prepared: 0	8/17/23 A	nalyzed: 08/18/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.0		50.0		97.9	50-200			
LCS (2333057-BS1)							Prepared: 0	8/17/23 A	analyzed: 08/18/23
Diesel Range Organics (C10-C28)	240	25.0	250		96.2	38-132			
Surrogate: n-Nonane	46.4		50.0		92.9	50-200			
Matrix Spike (2333057-MS1)				Source: 1	E308115-	03	Prepared: 0	8/17/23 A	analyzed: 08/18/23
Diesel Range Organics (C10-C28)	231	25.0	250	ND	92.2	38-132			
Surrogate: n-Nonane	40.0		50.0		80.1	50-200			
Matrix Spike Dup (2333057-MSD1)				Source:	E308115-	03	Prepared: 0	8/17/23 A	analyzed: 08/18/23
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.5	38-132	2.39	20	
Surrogate: n-Nonane	42.3		50.0		84.6	50-200			



QC Summary Data

		$\mathbf{x} \in \mathbf{z}$							
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(RDX Federal 2)1058-0007 Ashley Gioveng					Reported: 8/22/2023 4:03:06PM
		Anions	by EPA	300.0/90564	۸				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2333064-BLK1)	ND	20.0					Prepared: 0	8/17/23	Analyzed: 08/19/23
LCS (2333064-BS1)							Prepared: 0	8/17/23	Analyzed: 08/19/23
Chloride Matrix Spike (2333064-MS1)	247	20.0	250	Source:	98.6 E308119-0	90-110	Prepared: 0	8/17/23	Analyzed: 08/19/23
Chloride	315	20.0	250	70.5	97.6	80-120	1		
Matrix Spike Dup (2333064-MSD1)				Source:	E308119-0)1	Prepared: 0	8/17/23	Analyzed: 08/19/23
Chloride	319	20.0	250	70.5	99.3	80-120	1.28	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.



Γ	Ensolum, LLC	Project Name:	RDX Federal 21 #042	
	3122 National Parks Hwy	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/22/23 16:03

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



1

Received by OCD: 9/27/2023 1:40:51 PM

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roject: RDX Federa	al 21 #042	<u> </u>			Attention: Jim Raley		ī	ab WC)#		Job	Num	nber	_1D	2D	3D	St	andard	CWA	SDWA
roject Manager: A	shley Gio	vengo		1	Address: 5315 Buena Vista Dr				812	20		58	-000		+			x		
ddress: 3122 Nation	onal Parks	s Hwy			City, State, Zip: Carlsbad NM, 8	8220							nd Meth							RCRA
ity, State, Zip: Carl	sbad NM	, 88220			Phone: (575)689-7597			<u>ھ</u>		Т	T	í –		T	T		Γ			
hone: 575-988-00	55				Email: jim.raley@dvn.com			20 D									1	ya na asar ju	State	
mail: agiovengo@	ensolum.	com						8						5				NM CO		TY
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ampled Date Sampled	Matrix	Containers	Sample ID			Numi		TPH GRO/DRO/ORO by	BTEX 8	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		60 CO			Remarks	
12:40 8/15/2023	C cil	4 1			FS22 - 2'					12		10				1.				
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12:43 8/15/2023					FS23 - 2'			_ _	+		+		+ +	+						
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12:47 8/15/2023	C - ''				SW01 - 1'				+	+	1		<u> </u>	+	+	+				
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field sampler), attest to th	he validity an	d authentici	v of this sample.	am av	vare that tampering with or intentionally misl	lahelling the sa	mole	location			Sampl	es nequi	iring thermal	Dreserv	i ation mi	ust he re	ceived	on ice the day t	hey are samp	ed or
e or time of collection is						in the second												n 6 °C on subse		
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linquished by: (Signatu	ile)	Date	Time		Received by: (Signature)	Date	16.	Time	<u>~</u>	<u> </u>	┤┸┹─			<u>T2</u>			,	<u>T3</u>	<u> </u>	
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nple Matrix: S - Soil, Sd - S	Solid. Se - Stu	dge A-Acu			l	Cantal	no- 7		alar		AVG	_								:
				nless	other arrangements are made. Hazardo		uill be	ype:g-	giass	», p - l		astic	c, ag - am	ber g	iass, v	- VO/	4	at family		
nples is applicable only	y to those sa	imples rece	eived by the labo	raton	with this COC. The liability of the labora	ous sampies \ atory is limite	will De will to t	the amou	:0 (0 (Int na	id for	on the	USED (or at the C	lient e	expens	e. Th	e repo	ort for the a	nalysis of t	te above
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Instructions: Please take note of any NO checkmarks.

Envirotech Analytical Laboratory

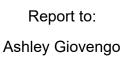
Sample Receipt Checklist (SRC)

Client:	Ensolum, LLC Da	ate Received:	08/17/23 08	3:00		Work Order ID:	E308126
Phone:	(575) 988-0055 Da	ate Logged In:	08/16/23 17	7:05		Logged In By:	Caitlin Mars
Email:	a.giovengo@ensolum.com D	ue Date:	08/23/23 17	7:00 (4 day TAT)			
Chain of	f Custody (COC)						
	the sample ID match the COC?		Yes				
	the number of samples per sampling site location match	the COC	Yes				
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Couri	ier		
4. Was th	he COC complete, i.e., signatures, dates/times, requested	1 analyses?	Yes				
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes			<u>Commen</u>	ts/Resolution
Sample '	Turn Around Time (TAT)						
	the COC indicate standard TAT, or Expedited TAT?		Yes				
Sample			100				
	sample cooler received?		Yes				
	, was cooler received in good condition?		Yes				
-	he sample(s) received intact, i.e., not broken?		Yes				
	e custody/security seals present?		No				
	s, were custody/security seals intact?		NA				
	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re minutes of sampling o visible ice, record the temperature. Actual sample ter	ceived w/i 15	Yes				
		прегаците. <u>+</u>	<u>c</u>				
	Container aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?		Yes				
19. Is the	appropriate volume/weight or number of sample containers	s collected?	Yes				
Field La	<u>ibel</u>						
20. Were	e field sample labels filled out with the minimum inform	ation:					
	Sample ID?		Yes				
	Date/Time Collected? Collectors name?		Yes				
	Preservation		Yes				
	s the COC or field labels indicate the samples were prese	erved?	No				
	sample(s) correctly preserved?		NA				
	b filteration required and/or requested for dissolved meta	als?	No				
	ase Sample Matrix						
-	s the sample have more than one phase, i.e., multiphase?		No				
	s, does the COC specify which phase(s) is to be analyzed		NA				
<u>Subcont</u>	tract Laboratory						
	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	4		
Climet I	Instruction						

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



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5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Ensolum, LLC

Project Name: RDX Federal 21 #042

Work Order: E308135

Job Number: 01058-0007

Received: 8/18/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/22/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 8/22/23

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX Federal 21 #042 Workorder: E308135 Date Received: 8/18/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/18/2023 8:15:00AM, under the Project Name: RDX Federal 21 #042.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #042 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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@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

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

Envirotech Web Address: www.envirotech-inc.com



Released to Imaging: 2/14/2024 11:21:48 AM

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		Sample Sum	mary	
Ensolum, LLC		Project Name:	RDX Federal 21 #042	Depenteda
3122 National Parks Hwy		Project Number:	Reported:	
Carlsbad NM, 88220		Project Manager:	Ashley Giovengo	08/22/23 16:07
Client Sample ID	Lab Sample ID	Matrix	Sampled Received	Container

· · · · · · · · · · · · · · · · · ·	···· ·		···· F ···			
FS24 - 4'	E308135-01A	Soil	08/16/23	08/18/23	Glass Jar, 2 oz.	
SW02 - 1'	E308135-02A	Soil	08/16/23	08/18/23	Glass Jar, 2 oz.	



	D		ata			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Num Project Mana	ber: 010	X Federal 21 # 58-0007 ley Giovengo	042		Reported: 8/22/2023 4:07:13PM
		FS24 - 4'				
		E308135-01				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2333053
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
Foluene	ND	0.0250	1	08/18/23	08/19/23	
p-Xylene	ND	0.0250	1	08/18/23	08/19/23	
o,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/18/23	08/19/23	
Surrogate: 4-Bromochlorobenzene-PID		89.0 %	70-130	08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2333053
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130	08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2333075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/18/23	
Surrogate: n-Nonane		86.5 %	50-200	08/18/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2333077
Chloride	329	40.0	2	08/18/23	08/20/23	



	0	ample D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numb Project Mana	ber: 010	X Federal 21 #04 58-0007 ley Giovengo	2		Reported: 8/22/2023 4:07:13PM
	i iojeet inana	0	ley slovengo			
		SW02 - 1'				
		E308135-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2333053
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
oluene	ND	0.0250	1	08/18/23	08/19/23	
-Xylene	ND	0.0250	1	08/18/23	08/19/23	
,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
otal Xylenes	ND	0.0250	1	08/18/23	08/19/23	
urrogate: 4-Bromochlorobenzene-PID		90.5 %	70-130	08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2333053
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		92.0 %	70-130	08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2333075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/18/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/18/23	
urrogate: n-Nonane		91.2 %	50-200	08/18/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2333077
Chloride	260	200	10	08/18/23	08/20/23	



QC Summary Data

		QU N		ing Dat					
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	DX Federal 2 1058-0007 shley Gioveng					Reported: 8/22/2023 4:07:13PM
		Volatile O	rganics b	oy EPA 802	21B				Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2333053-BLK1)							Prepared: 0	8/17/23 A	nalyzed: 08/18/23
Benzene	ND	0.0250					1		5
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
	ND	0.0250							
o-Xylene	ND								
o,m-Xylene	ND	0.0500 0.0250							
Total Xylenes Surrogate: 4-Bromochlorobenzene-PID	7.57	0.0250	8.00		94.6	70-130			
LCS (2333053-BS1)							Prepared: 0	8/17/23 A	nalyzed: 08/18/23
Benzene	5.19	0.0250	5.00		104	70-130	1		•
Ethylbenzene	5.12	0.0250	5.00		104	70-130			
Toluene	5.12	0.0250	5.00		102	70-130			
p-Xylene	5.12	0.0250	5.00		104	70-130			
	10.4	0.0500	10.0		102	70-130			
o,m-Xylene Fotal Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.62	0.0230	8.00		95.2	70-130			
Matrix Spike (2333053-MS1)				Source:	E308128-0	01	Prenared: 0	8/17/23 A	nalyzed: 08/18/23
• • /	4.04	0.0250	5.00				Trepured. 0	0/1//20 11	nary20a. 00/10/25
Benzene	4.94 6.66	0.0250	5.00 5.00	ND 1.76	98.8 97.9	54-133 61-133			
Ethylbenzene		0.0250							
Toluene	5.29	0.0250	5.00	0.284	100	61-130			
p-Xylene	7.57	0.0250	5.00	2.63	99.0 07.2	63-131			
o,m-Xylene	14.9 22.5	0.0500	10.0 15.0	5.16 7.78	97.3 97.8	63-131 63-131			
Total Xylenes Surrogate: 4-Bromochlorobenzene-PID	7.40	0.0250	8.00	1.10	97.8	70-130			
Matrix Spike Dup (2333053-MSD1)				Source	E308128-0		Prenared: 0	8/17/23 A	nalyzed: 08/18/23
	5.00						1		1101y200. 00/10/23
Benzene	5.02	0.0250	5.00	ND	100	54-133	1.60	20	
Ethylbenzene	6.72	0.0250	5.00	1.76	99.2	61-133	0.927	20	
Toluene	5.32	0.0250	5.00	0.284	101	61-130	0.476	20	
o-Xylene	7.56	0.0250	5.00	2.63	98.6	63-131	0.213	20	
o,m-Xylene	14.9	0.0500	10.0	5.16	97.3	63-131	0.0202	20	
Total Xylenes	22.4	0.0250	15.0	7.78	97.8	63-131	0.0586	20	
Surrogate: 4-Bromochlorobenzene-PID	7.05		8.00		88.1	70-130			



QC Summary Data

		QC D	umm	ary Data	a				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX Federal 21)1058-0007 Ashley Gioveng					Reported: 8/22/2023 4:07:13PM
	No	nhalogenated (Organics	by EPA 801	15D - GI	RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
	0 0	6 6	66	6 6		,,,	,,,	,,,	
Blank (2333053-BLK1)							Prepared: 0	8/17/23 A	nalyzed: 08/18/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			
LCS (2333053-BS2)							Prepared: 0	8/17/23 A	nalyzed: 08/18/23
Gasoline Range Organics (C6-C10)	51.0	20.0	50.0		102	70-130			-
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			
Matrix Spike (2333053-MS2)				Source:	E308128-	01	Prepared: 0	8/17/23 A	nalyzed: 08/18/23
Gasoline Range Organics (C6-C10)	189	20.0	50.0	114	150	70-130			M1
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.47		8.00		106	70-130			
Matrix Spike Dup (2333053-MSD2)				Source:	E308128-	01	Prepared: 0	8/17/23 A	nalyzed: 08/18/23
Gasoline Range Organics (C6-C10)	180	20.0	50.0	114	132	70-130	4.75	20	M1
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.04		8.00		100	70-130			



QC Summary Data

		QC D	u I I I I I I	aly Data	1				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(RDX Federal 21 01058-0007 Ashley Gioveng					Reported: 8/22/2023 4:07:13PM
	Nonh	alogenated Org	anics by	y EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2333075-BLK1)							Prepared: 0	8/18/23 A	Analyzed: 08/18/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.3		50.0		94.6	50-200			
LCS (2333075-BS1)							Prepared: 0	8/18/23 A	Analyzed: 08/18/23
Diesel Range Organics (C10-C28)	233	25.0	250		93.2	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			
Matrix Spike (2333075-MS1)				Source:	E308135-	02	Prepared: 0	8/18/23 A	Analyzed: 08/18/23
Diesel Range Organics (C10-C28)	231	25.0	250	ND	92.6	38-132			
Surrogate: n-Nonane	42.1		50.0		84.2	50-200			
Matrix Spike Dup (2333075-MSD1)				Source:	E308135-	02	Prepared: 0	8/18/23 A	Analyzed: 08/18/23
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.0	38-132	0.488	20	
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			



QC Summary Data

		$\mathbf{x} \in \mathbf{z}$	••••••						
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(RDX Federal 2 01058-0007 Ashley Gioveng					Reported: 8/22/2023 4:07:13PM
		Anions	by EPA	300.0/90564	4				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2333077-BLK1)							Prepared: 0	8/18/23	Analyzed: 08/19/23
Chloride LCS (2333077-BS1)	ND	20.0					Prepared: 0	8/18/23	Analyzed: 08/19/23
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2333077-MS1)				Source:	E308066-	01	Prepared: 0	8/18/23	Analyzed: 08/19/23
Chloride	273	20.0	250	ND	109	80-120			
Matrix Spike Dup (2333077-MSD1)				Source:	E308066-	01	Prepared: 0	8/18/23	Analyzed: 08/19/23
Chloride	275	20.0	250	ND	110	80-120	0.434	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.



Ensolum, LLC	Project Name:	RDX Federal 21 #042	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/22/23 16:07

M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

Release

Page _____ of

Received by OCD: 9/27/2023 1:40:51 PM

	insolum, LLC				_	Bill To				La	ab Us	se On	nly			-	T/	AT		EPA P	rogram
Project:	RDX Federal	21 #042				Attention: Jim Raley		Lab	WO#		~	Job	Num	ber	1D	2D	3D	Sta	ndard	CWA	SDWA
	Manager: As					Address: 5315 Buena Vista	Dr	EF	308	13	5	DIC	58	-0007					х		
Address:	3122 Natio	nal Parks	Hwy		_	City, State, Zip: Carlsbad N	M, 88220							nd Metho				1			RCRA
City, Stat	te, Zip: Carls	bad NM,	88220	_		Phone: (575)689-7597			λq					0							
hone:	575-988-005	5				Email: jim.raley@dvn.com			ORO											State	
Email: a	giovengo@e	nsolum.	com						30/0	H		1.	0.0		WN				NM CO	UT AZ	TX
Report d	ue by:					-		- 1	JO/O	802	3260	010	300				TX		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC			Remarks	
	0/10/2022					552 A A	Number	-	TP 80	81	×	Σ	5		B	-	19				
13:17	8/16/2023	Soil	1 Jar			FS24 - 4'									x						
10:33	8/16/2023	Soil	1 Jar			SW02 - 1'	2								x						
															1						
			1				6.00														
																-					
			-				-	-			-					-					
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				-						_	-				-	-					
Addition	al Instructio	ns: Plea	ase CC: ct	urton@en	solum.	.com, agiovengo@ensolum.c	om, iim,ralev@dv	(n.co	m ch	amil	Iton	Øens	olur	n.com							
										ann	reorit										
	pler), attest to the of collection is c					ware that tampering with or intentiona ction. <u>Sampled by:</u>	lly mislabelling the samp	le loca	ation,					iring thermal p ed in ice at an						they are samp equent days.	led or
elinguishe	ed by: (Signatur	re)	Date	17-23 T	ime 7!0	S Receiverby: (Signature)	Date 7:	23	Time	34		Rece	eived	on ice:	C	ab U	se Or I	ıly			
/	ed Gr. Gignatur		Date 8-1	7-23	103	8 Reveived by: (Signature)	Allo B.11	7.23	Time	23		T1	44		T2				тз		
elinquish	ed by: (Signatur	re)	So Date	18.23	Dll	5 Begeived by (Senature)	In S/18/	12	Time	15	-	1.20	Ten	np °C	+						
ample Mat	rix: S - Soil, Sd - S	olid, Sg - Slu	idge, A - Aqu	eous, O - Other			Containe	r Typ	e: g - g	glass,					ber g	lass, v	- VO	A			
Note: Sam	ples are discard	led 30 days	s after resul	Its are reporte	ed unless	s other arrangements are made. H with this COC. The liability of the	azardous samples will	be re	turned	to cli	ient c	or disp	osed	of at the c					rt for the a	inalysis of t	he above

Envirotech Analytical Laboratory

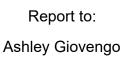
Sample Receipt Checklist (SRC)

Client:	Ensolum, LLC I	Date Received:	08/18/23	08:15	Work Order ID:	E308135
Phone:	(575) 988-0055 I	Date Logged In:	08/17/23	16:28	Logged In By:	Caitlin Mars
Email:	a.giovengo@ensolum.com I	Due Date:	08/24/23	17:00 (4 day TAT)		
<u>Chain o</u>	f Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location matcl	n the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	he COC complete, i.e., signatures, dates/times, requested	d analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in t i.e, 15 minute hold time, are not included in this disucssion		Yes		Commen	ts/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes,	, was cooler received in good condition?		Yes			
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are r minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample te	emperature: <u>4°</u>	<u>C</u>			
Sample	Container					
	aqueous VOC samples present?		No			
15. Are '	VOC samples collected in VOA Vials?		NA			
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was	a trip blank (TB) included for VOC analyses?		NA			
18. Are 1	non-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample containe	rs collected?	Yes			
Field La	<u>ibel</u>					
20. Were	e field sample labels filled out with the minimum inform	nation:				
	Sample ID?		Yes			
	Date/Time Collected? Collectors name?		Yes			
			Yes			
_	Preservation s the COC or field labels indicate the samples were pres	served?	No			
	sample(s) correctly preserved?		NA			
	b filteration required and/or requested for dissolved me	tals?	No			
	ase Sample Matrix		- • •			
	s the sample have more than one phase, i.e., multiphase	n	No			
			NA			
26. Does	s does the COC specify which phase(s) is to be analyze		INA			
26. Does 27. If ye	s, does the COC specify which phase(s) is to be analyz					
 26. Does 27. If ye Subcont 	ract Laboratory					
 26. Does 27. If ye Subcont 28. Are s 		?	No NA	Subcontract Lab: na		

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



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5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Ensolum, LLC

Project Name: RDX Federal 21 #042

Work Order: E308145

Job Number: 01058-0007

Received: 8/18/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 8/25/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 8/25/23

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX Federal 21 #042 Workorder: E308145 Date Received: 8/18/2023 1:45:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/18/2023 1:45:00PM, under the Project Name: RDX Federal 21 #042.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #042 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

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Cell: 505-320-4759

ljarboe@envirotech-inc.com

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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

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

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

		Sample Sum	mai y		
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	RDX Federal 21 #04 01058-0007 Ashley Giovengo	42	Reported: 08/25/23 13:04
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS25 - 3'	E308145-01A	Soil	08/17/23	08/18/23	Glass Jar, 2 oz.
FS26 - 3.5'	E308145-02A	Soil	08/17/23	08/18/23	Glass Jar, 2 oz.
FS27 - 4'	E308145-03A	Soil	08/17/23	08/18/23	Glass Jar, 2 oz.
SW04 - 2'	E308145-04A	Soil	08/17/23	08/18/23	Glass Jar, 2 oz.
SW07 - 1'	E308145-05A	Soil	08/17/23	08/18/23	Glass Jar, 2 oz.



	5	ampie D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numbo Project Manag	er: 0103	X Federal 21 #(58-0007 ley Giovengo)42		Reported: 8/25/2023 1:04:44PM
		FS25 - 3'				
		E308145-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2334014
Benzene	ND	0.0250	1	08/21/23	08/22/23	
thylbenzene	ND	0.0250	1	08/21/23	08/22/23	
oluene	ND	0.0250	1	08/21/23	08/22/23	
-Xylene	ND	0.0250	1	08/21/23	08/22/23	
,m-Xylene	ND	0.0500	1	08/21/23	08/22/23	
Total Xylenes	ND	0.0250	1	08/21/23	08/22/23	
urrogate: 4-Bromochlorobenzene-PID		89.7 %	70-130	08/21/23	08/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2334014
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/23	08/22/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		87.1 %	70-130	08/21/23	08/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2334005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/21/23	08/22/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/21/23	08/22/23	
urrogate: n-Nonane		107 %	50-200	08/21/23	08/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2334010
Chloride	447	20.0	1	08/21/23	08/22/23	



	5	ampie D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 010:	X Federal 21 #(58-0007 ley Giovengo)42		Reported: 8/25/2023 1:04:44PM
		FS26 - 3.5'				
		E308145-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2334014
Benzene	ND	0.0250	1	08/21/23	08/22/23	
Ethylbenzene	ND	0.0250	1	08/21/23	08/22/23	
Toluene	ND	0.0250	1	08/21/23	08/22/23	
p-Xylene	ND	0.0250	1	08/21/23	08/22/23	
o,m-Xylene	ND	0.0500	1	08/21/23	08/22/23	
Total Xylenes	ND	0.0250	1	08/21/23	08/22/23	
Surrogate: 4-Bromochlorobenzene-PID		89.9 %	70-130	08/21/23	08/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2334014
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/23	08/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.8 %	70-130	08/21/23	08/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2334005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/21/23	08/22/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/21/23	08/22/23	
Surrogate: n-Nonane		105 %	50-200	08/21/23	08/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2334010
Chloride	364	20.0	1	08/21/23	08/22/23	



	3	ample D	ลเล			
Ensolum, LLC	Project Name	: RD2	X Federal 21 #	042		
3122 National Parks Hwy	Project Numb	er: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Giovengo			8/25/2023 1:04:44PM
		FS27 - 4'				
		E308145-03				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2334014
Benzene	ND	0.0250	1	08/21/23	08/22/23	
Ethylbenzene	ND	0.0250	1	08/21/23	08/22/23	
Foluene	ND	0.0250	1	08/21/23	08/22/23	
p-Xylene	ND	0.0250	1	08/21/23	08/22/23	
o,m-Xylene	ND	0.0500	1	08/21/23	08/22/23	
Total Xylenes	ND	0.0250	1	08/21/23	08/22/23	
Surrogate: 4-Bromochlorobenzene-PID		89.9 %	70-130	08/21/23	08/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2334014
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/23	08/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.3 %	70-130	08/21/23	08/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2334005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/21/23	08/22/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/21/23	08/22/23	
Surrogate: n-Nonane		99.3 %	50-200	08/21/23	08/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2334010
Chloride	392	20.0	1	08/21/23	08/22/23	



	0	ample D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numl Project Mana	ber: 010	X Federal 21 58-0007 ley Giovengo			Reported: 8/25/2023 1:04:44PM
		SW04 - 2'				
		E308145-04				
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	А	nalyst: RKS		Batch: 2334014
Benzene	ND	0.0250	1	08/21/23	08/22/23	
thylbenzene	ND	0.0250	1	08/21/23	08/22/23	
oluene	ND	0.0250	1	08/21/23	08/22/23	
-Xylene	ND	0.0250	1	08/21/23	08/22/23	
,m-Xylene	ND	0.0500	1	08/21/23	08/22/23	
otal Xylenes	ND	0.0250	1	08/21/23	08/22/23	
urrogate: 4-Bromochlorobenzene-PID		89.6 %	70-130	08/21/23	08/22/23	
onhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	nalyst: RKS		Batch: 2334014
asoline Range Organics (C6-C10)	ND	20.0	1	08/21/23	08/22/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		86.6 %	70-130	08/21/23	08/22/23	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	А	nalyst: KM		Batch: 2334005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/21/23	08/22/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/21/23	08/22/23	
urrogate: n-Nonane		106 %	50-200	08/21/23	08/22/23	
anions by EPA 300.0/9056A	mg/kg	mg/kg	А	nalyst: BA		Batch: 2334010
Chloride	38.2	20.0	1	08/21/23	08/22/23	



	D	ampic D	ala			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 0103	X Federal 21 #042 58-0007 ley Giovengo	2		Reported: 8/25/2023 1:04:44PM
		SW07 - 1'				
		E308145-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	kg Analyst: RKS			Batch: 2334014
Benzene	ND	0.0250	1	08/21/23	08/22/23	
Ethylbenzene	ND	0.0250	1	08/21/23	08/22/23	
Toluene	ND	0.0250	1	08/21/23	08/22/23	
p-Xylene	ND	0.0250	1	08/21/23	08/22/23	
o,m-Xylene	ND	0.0500	1	08/21/23	08/22/23	
Total Xylenes	ND	0.0250	1	08/21/23	08/22/23	
Surrogate: 4-Bromochlorobenzene-PID		90.2 %	70-130	08/21/23	08/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2334014
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/23	08/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.9 %	70-130	08/21/23	08/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2334005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/21/23	08/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/23	08/22/23	
Surrogate: n-Nonane		100 %	50-200	08/21/23	08/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2334010
Chloride	50.5	20.0	1	08/21/23	08/22/23	



QC Summary Data

		QU DI		ing Duc					
Ensolum, LLC 3122 National Parks Hwy		Project Name: Project Number:		DX Federal 2 1058-0007	1 #042				Reported:
Carlsbad NM, 88220		Project Manager:	Α	shley Gioveng	go				8/25/2023 1:04:44PM
		Volatile O	rganics l	by EPA 802	21B				Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2334014-BLK1)							Prepared: 0	8/21/23	Analyzed: 08/22/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.6	70-130			
LCS (2334014-BS1)							Prepared: 0	8/21/23	Analyzed: 08/22/23
Benzene	4.55	0.0250	5.00		90.9	70-130			
Ethylbenzene	4.37	0.0250	5.00		87.4	70-130			
Toluene	4.54	0.0250	5.00		90.9	70-130			
o-Xylene	4.48	0.0250	5.00		89.5	70-130			
p,m-Xylene	9.05	0.0500	10.0		90.5	70-130			
Total Xylenes	13.5	0.0250	15.0		90.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.24		8.00		90.5	70-130			
Matrix Spike (2334014-MS1)				Source:	E308144-	02	Prepared: 0	8/21/23	Analyzed: 08/22/23
Benzene	5.06	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.86	0.0250	5.00	ND	97.2	61-133			
Toluene	5.05	0.0250	5.00	ND	101	61-130			
o-Xylene	4.99	0.0250	5.00	ND	99.8	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			
Matrix Spike Dup (2334014-MSD1)				Source:	E308144-	02	Prepared: 0	8/21/23	Analyzed: 08/22/23
Benzene	4.85	0.0250	5.00	ND	97.1	54-133	4.14	20	
Ethylbenzene	4.65	0.0250	5.00	ND	93.0	61-133	4.48	20	
Toluene	4.85	0.0250	5.00	ND	96.9	61-130	4.19	20	
o-Xylene	4.77	0.0250	5.00	ND	95.4	63-131	4.46	20	
p,m-Xylene	9.63	0.0500	10.0	ND	96.3	63-131	4.37	20	
Total Xylenes	14.4	0.0250	15.0	ND	96.0	63-131	4.40	20	



QC Summary Data

		QC D	umm	aly Data	a a				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager	(RDX Federal 21)1058-0007 Ashley Gioveng					Reported: 8/25/2023 1:04:44PM
	Nor	halogenated (RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
	iiig/kg	шукд	шукд	mg/Kg	70	70	70	70	Notes
Blank (2334014-BLK1)							Prepared: 0	8/21/23 A	nalyzed: 08/22/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.58		8.00		82.2	70-130			
LCS (2334014-BS2)							Prepared: 0	8/21/23 A	nalyzed: 08/22/23
Gasoline Range Organics (C6-C10)	46.5	20.0	50.0		92.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.65		8.00		83.1	70-130			
Matrix Spike (2334014-MS2)				Source:	E308144-	02	Prepared: 0	8/21/23 A	nalyzed: 08/22/23
Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.10		8.00		88.8	70-130			
Matrix Spike Dup (2334014-MSD2)				Source:	E308144-	02	Prepared: 0	8/21/23 A	analyzed: 08/22/23
Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130	0.437	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.14		8.00		89.3	70-130			



QC Summary Data

		QC D	umm	aly Data					
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(RDX Federal 21 01058-0007 Ashley Giovengo					Reported: 8/25/2023 1:04:44PM
	Nonh	alogenated Org	anics by	y EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2334005-BLK1)							Prepared: 0	8/21/23 A	nalyzed: 08/22/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	51.2		50.0		102	50-200			
LCS (2334005-BS1)							Prepared: 0	8/21/23 A	analyzed: 08/22/23
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	51.5		50.0		103	50-200			
Matrix Spike (2334005-MS1)				Source: E	308144-	01	Prepared: 0	8/21/23 A	analyzed: 08/22/23
Diesel Range Organics (C10-C28)	661	25.0	250	483	71.1	38-132			
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			
Matrix Spike Dup (2334005-MSD1)				Source: E	308144-	01	Prepared: 0	8/21/23 A	analyzed: 08/22/23
Diesel Range Organics (C10-C28)	840	25.0	250	483	143	38-132	23.9	20	M2, R2
Surrogate: n-Nonane	56.0		50.0		112	50-200			



QC Summary Data

		$\mathbf{x} \circ \sim$	••••••						
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager	(RDX Federal 2)1058-0007 Ashley Gioveng					Reported: 8/25/2023 1:04:44PM
		Anions	by EPA	300.0/9056	4				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2334010-BLK1)							Prepared: 0	8/21/23 A	Analyzed: 08/21/23
Chloride LCS (2334010-BS1)	ND	20.0					Prepared: 0	8/21/23 A	Analyzed: 08/22/23
Chloride	256	20.0	250		102	90-110	Treparea. o	0,21,25 1	inary200. 00,22,23
Matrix Spike (2334010-MS1)				Source:	E308147-	01	Prepared: 0	8/21/23 A	Analyzed: 08/21/23
Chloride	1140	20.0	250	959	70.8	80-120			M4
Matrix Spike Dup (2334010-MSD1)				Source:	E308147-	01	Prepared: 0	8/21/23 A	Analyzed: 08/21/23
Chloride	1070	20.0	250	959	45.5	80-120	5.72	20	M4

QC Summary Report Comment:

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



Ensolum, LLC	Project Name:	RDX Federal 21 #042	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/25/23 13:04

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- R2 The RPD exceeded the acceptance limit.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Project Information

Rele

Received by OCD: 9/27/2023 1:40:51 PM

and the second second	Ensolum, LLC.					Bill To		Lab Use Only								T/			ogram	
	RDX Federal				WORTH KOWA	Attention: Jim Raley		Lab	ab WO# Job Number 308/45 01058-0007					11) 2D	3D	Standa	rd (CWA	SDWA
	Manager: As				a long of the second	dress: 5315 Buena Vista Di		ES	308	145	0	058	-000	7			x	-		
	: 3122 Nation				and the second se	y, State, Zip: Carlsbad NM,	88220		-		Ana	lysis a	and Meth	hod		-				RCRA
	te, Zip: Carls		88220		and the second se	one: (575)689-7597		- 1	Vd O						1			The second		
	575-988-005				<u>En</u>	nail: jim.raley@dvn.com	and the second	- 1	/ORI		15								State	
	giovengo@e	nsolum.c	com						ORO	121	3 9	0.00		VINA		X	NM	CO U	T AZ	TX
leport d	lue by.							- 1	RO/	y 80	y ut	de 3					×			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample II	C		Lab Number		TPH GRO/DRO/ORO by 8015	BTEX by 8021	Metals 6010	Chloride 300.0				GDOC	- 1	Re	emarks	
10:05	8/17/2023	Soil	1 Jar			FS25 - 3'	1)	(
10:07	8/17/2023	Soil	1 Jar			FS26 - 3.5'	2						•	,	(
10:10	8/17/2023	Soil	1 Jar			FS27 - 4'	3							,	(
11:05	8/17/2023	Soil	1 Jar			SW04 - 2'	4							,	(
10:15	8/17/2023	Soil	1 Jar	1.15		SW07 - 1'	5							,	(
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		1												1						
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ddition	al Instruction	ns: Plea	ase CC: c	burton@e	ensolum.com	n, agiovengo@ensolum.con	n, jim.raley@dv	/n.cor	n, cha	amilto	n@ei	nsolu	m.com	-						
						that tampering with or intentionally n	nislabelling the samp	le locati	ion,								ceived on ice these than 6 °C o			ed or
	e of collection is co ed by: (Signatur 2007				Time 7:15	Sampled by: Received by: (Signature)	Date 8:18-0.	0	Time 13:	45	-	and the second	d on ice:			lse On				
elinquish	ed by: (Signatur	e)	Date		Time	Received by: (Signature)	Date		Time								<u></u> <u>T3</u>			
elinquish	ed by: (Signatur	e)	Date	2	Time	Received by: (Signature)	Date		Time	-			mp °C_	4			<u></u>			
ample Mat	trix: S - Soil, Sd - So	olid, S g - Slu	dge, A - Aqu	ueous, O - Oth	ner		Containe	r Type	:g-g	ass, p	112110-1-2	These States and the		nber	glass.	v - VOA	4			Leader and a second
ote: Sam	ples are discard	ed 30 days	after resu	lts are repor	rted unless othe	er arrangements are made. Haza h this COC. The liability of the lab	rdous samples will	be ret	urned	to clien	t or di	sposed	of at the					the anal	lysis of th	ne above
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											1	->		1000	IN HIM	AT AT			E STATE	

Envirotech Analytical Laboratory

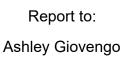
Sample Receipt Checklist (SRC)

Client:	Ensolum, LLC	Date Received:	08/18/23	13:45	Work Order ID:	E308145
Phone:	(575) 988-0055 E	Date Logged In:	08/18/23	15:28	Logged In By:	Caitlin Mars
Email:		Due Date:	08/25/23	17:00 (5 day TAT)		
Chain of	f Custody (COC)					
1. Does t	the sample ID match the COC?		Yes			
2. Does t	the number of samples per sampling site location match	the COC	Yes			
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	he COC complete, i.e., signatures, dates/times, requeste	d analyses?	Yes			
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.		Yes		Commen	ts/Resolution
Sample '	<u>Turn Around Time (TAT)</u>					
6. Did th	ne COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes,	, was cooler received in good condition?		Yes			
9. Was th	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are r minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample te	mperature: 4°	с			
	Container	I · · · · · <u>—</u>				
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample container	s collected?	Yes			
Field La						
	e field sample labels filled out with the minimum inform	nation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes	L		
	Collectors name?		Yes			
-	<u>Preservation</u>	ch er me	ът.			
	s the COC or field labels indicate the samples were pres	civeu?	No Na			
	sample(s) correctly preserved? b filteration required and/or requested for dissolved met	ale?	NA No			
	· ·		INU			
	nase Sample Matrix	n				
	s the sample have more than one phase, i.e., multiphase		No			
	s, does the COC specify which phase(s) is to be analyze	eu?	NA			
	tract Laboratory					
	samples required to get sent to a subcontract laboratory a subcontract laboratory specified by the client and if s		No			
			NA	Subcontract Lab: NA		

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



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5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Ensolum, LLC

Project Name: RDX Federal 21 #042

Work Order: E308158

Job Number: 01058-0007

Received: 8/22/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/28/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 8/28/23

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX Federal 21 #042 Workorder: E308158 Date Received: 8/22/2023 8:15:00AM

Ashley Giovengo,

biovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/22/2023 8:15:00AM, under the Project Name: RDX Federal 21 #042.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #042 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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@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

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

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

		Sample Sum	mai y		
Ensolum, LLC		Project Name:	RDX Federal 21 #0	42	Reported:
3122 National Parks Hwy		Project Number:	01058-0007		Keporteu:
Carlsbad NM, 88220		Project Manager:	Ashley Giovengo		08/28/23 11:09
lient Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S28 - 0.5'	E308158-01A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
S29 - 0.5'	E308158-02A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
S30 - 0.5'	E308158-03A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
S31 - 0.5'	E308158-04A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
\$32 - 0.5'	E308158-05A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
833 - 0.5'	E308158-06A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
834 - 0.5'	E308158-07A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
\$35 - 0.5'	E308158-08A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
536 - 0.5'	E308158-09A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
\$37 - 0.5'	E308158-10A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
538 - 0.5'	E308158-11A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
839 - 0.5'	E308158-12A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
S40 - 0.5'	E308158-13A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
S41 - 0.5'	E308158-14A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
842 - 0.5'	E308158-15A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
S43 - 0.5'	E308158-16A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
S44 - 0.5'	E308158-17A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
545 - 0.5'	E308158-18A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
546 - 0.5'	E308158-19A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
547 - 0.5'	E308158-20A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.
S48 - 0.5'	E308158-21A	Soil	08/18/23	08/22/23	Glass Jar, 2 oz.



	5	ampic D	ata			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numbo Project Manag	er: 0103	K Federal 21 #042 58-0007 ley Giovengo			Reported: 8/28/2023 11:09:34AM
		FS28 - 0.5'				
		E308158-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/24/23	
Toluene	ND	0.0250	1	08/22/23	08/24/23	
p-Xylene	ND	0.0250	1	08/22/23	08/24/23	
p,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
Total Xylenes	ND	0.0250	1	08/22/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID		93.3 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2334032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	:g Analyst: JL			Batch: 2334040
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
Surrogate: n-Nonane		93.2 %	50-200	08/24/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2334058
Chloride	6600	400	20	08/24/23	08/24/23	



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Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 010:	X Federal 21 #042 58-0007 ley Giovengo			Reported: 8/28/2023 11:09:34AM
		FS29 - 0.5'				
		E308158-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/24/23	
Toluene	ND	0.0250	1	08/22/23	08/24/23	
p-Xylene	ND	0.0250	1	08/22/23	08/24/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
Fotal Xylenes	ND	0.0250	1	08/22/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID		92.7 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2334032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	cg Analyst: JL			Batch: 2334040
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
Surrogate: n-Nonane		92.4 %	50-200	08/24/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	BA		Batch: 2334058
Chloride	4520	400	20	08/24/23	08/24/23	



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Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numb Project Manaş	er: 010	X Federal 21 #042 58-0007 ley Giovengo			Reported: 8/28/2023 11:09:34AM
		FS30 - 0.5'				
		E308158-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
thylbenzene	ND	0.0250	1	08/22/23	08/24/23	
oluene	ND	0.0250	1	08/22/23	08/24/23	
-Xylene	ND	0.0250	1	08/22/23	08/24/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
fotal Xylenes	ND	0.0250	1	08/22/23	08/24/23	
urrogate: 4-Bromochlorobenzene-PID		93.8 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2334032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		92.0 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g Analyst: JL		Batch: 2334040	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
urrogate: n-Nonane		93.7 %	50-200	08/24/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2334058
Chloride	1730	400	20	08/24/23	08/24/23	



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Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numb Project Manag	ber: 010	X Federal 21 #042 58-0007 ley Giovengo			Reported: 8/28/2023 11:09:34AM
		FS31 - 0.5'				
		E308158-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	:: IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/24/23	
Toluene	ND	0.0250	1	08/22/23	08/24/23	
p-Xylene	ND	0.0250	1	08/22/23	08/24/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
Total Xylenes	ND	0.0250	1	08/22/23	08/24/23	
urrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2334032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	kg Analyst: JL		Batch: 2334040	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
Surrogate: n-Nonane		93.9 %	50-200	08/24/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2334058
Chloride	9110	400	20	08/24/23	08/24/23	



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Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numb Project Mana	ber: 010	X Federal 21 #042 58-0007 ley Giovengo			Reported: 8/28/2023 11:09:34AM
		FS32 - 0.5'				
		E308158-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/24/23	
Toluene	ND	0.0250	1	08/22/23	08/24/23	
p-Xylene	ND	0.0250	1	08/22/23	08/24/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
Fotal Xylenes	ND	0.0250	1	08/22/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2334032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g Analyst: JL		Batch: 2334040	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
Surrogate: n-Nonane		97.1 %	50-200	08/24/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2334058
Chloride	9990	400	20	08/24/23	08/24/23	
Shioride	,,,,,					



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Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numb Project Manaş	er: 010:	X Federal 21 #042 58-0007 ley Giovengo			Reported: 8/28/2023 11:09:34AM
		FS33 - 0.5'				
		E308158-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	:: IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/24/23	
Toluene	ND	0.0250	1	08/22/23	08/24/23	
p-Xylene	ND	0.0250	1	08/22/23	08/24/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
Fotal Xylenes	ND	0.0250	1	08/22/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2334032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.0 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	cg Analyst: JL			Batch: 2334040
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
Surrogate: n-Nonane		95.5 %	50-200	08/24/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: BA		Batch: 2334058
Chloride	16400	1000	50	08/24/23	08/24/23	



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Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 010:	X Federal 21 #042 58-0007 ley Giovengo			Reported: 8/28/2023 11:09:34AM
		FS34 - 0.5'				
		E308158-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/24/23	
Toluene	ND	0.0250	1	08/22/23	08/24/23	
p-Xylene	ND	0.0250	1	08/22/23	08/24/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
Fotal Xylenes	ND	0.0250	1	08/22/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID		93.5 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2334032	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g Analyst: JL		Batch: 2334040	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
Surrogate: n-Nonane		94.5 %	50-200	08/24/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2334058
Chloride	6870	400	20	08/24/23	08/24/23	



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Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Num Project Mana	ber: 010	X Federal 21 #042 58-0007 ley Giovengo	2		Reported: 8/28/2023 11:09:34AM
		FS35 - 0.5'				
		E308158-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/24/23	
Toluene	ND	0.0250	1	08/22/23	08/24/23	
p-Xylene	ND	0.0250	1	08/22/23	08/24/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
Fotal Xylenes	ND	0.0250	1	08/22/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2334032
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.2 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2334040
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
Surrogate: n-Nonane		95.4 %	50-200	08/24/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2334058
Chloride	4940	400	20	08/24/23	08/24/23	
Anions by EPA 300.0/9056A Chloride			-		08/24/23	Bat



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Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 010:	X Federal 21 #042 58-0007 ley Giovengo			Reported: 8/28/2023 11:09:34AM
		FS36 - 0.5'				
		E308158-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/24/23	
Toluene	ND	0.0250	1	08/22/23	08/24/23	
p-Xylene	ND	0.0250	1	08/22/23	08/24/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
Fotal Xylenes	ND	0.0250	1	08/22/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID		92.7 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	IY		Batch: 2334032
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.7 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2334040
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
Surrogate: n-Nonane		94.3 %	50-200	08/24/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	BA		Batch: 2334058
Chloride	3040	400	20	08/24/23	08/24/23	



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Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 010:	X Federal 21 #042 58-0007 ley Giovengo			Reported: 8/28/2023 11:09:34AM
		FS37 - 0.5'				
		E308158-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/24/23	
Toluene	ND	0.0250	1	08/22/23	08/24/23	
o-Xylene	ND	0.0250	1	08/22/23	08/24/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
Fotal Xylenes	ND	0.0250	1	08/22/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID		93.0 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	IY		Batch: 2334032
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.8 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2334040
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
Gurrogate: n-Nonane		95.4 %	50-200	08/24/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	BA		Batch: 2334058
Chloride	2040	400	20	08/24/23	08/24/23	



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Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numb Project Manaş	er: 010	X Federal 21 #042 58-0007 ley Giovengo			Reported: 8/28/2023 11:09:34AM
		FS38 - 0.5'				
		E308158-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/24/23	
Toluene	ND	0.0250	1	08/22/23	08/24/23	
p-Xylene	ND	0.0250	1	08/22/23	08/24/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
Total Xylenes	ND	0.0250	1	08/22/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID		94.0 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	IY		Batch: 2334032
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2334040
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
Surrogate: n-Nonane		94.9 %	50-200	08/24/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	BA		Batch: 2334058
Chloride	2200	400	20	08/24/23	08/24/23	



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Ensolum, LLC	Project Name:	RDZ	K Federal 21 #042			
3122 National Parks Hwy	Project Numbe	er: 0105	58-0007	Reported:		
Carlsbad NM, 88220	Project Manag	er: Ash	ley Giovengo			8/28/2023 11:09:34AM
		FS39 - 0.5'				
		E308158-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/24/23	
Foluene	ND	0.0250	1	08/22/23	08/24/23	
o-Xylene	ND	0.0250	1	08/22/23	08/24/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
Total Xylenes	ND	0.0250	1	08/22/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID		94.0 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: IY		Batch: 2334032
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.0 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: JL		Batch: 2334040
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/25/23	
Surrogate: n-Nonane		95.6 %	50-200	08/24/23	08/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2334058
Chloride	5380	400	20	08/24/23	08/24/23	



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Ensolum, LLC	Project Name	: RD2	K Federal 21 #042			
3122 National Parks Hwy	Project Numb	er: 0103	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ey Giovengo			8/28/2023 11:09:34AM
		FS40 - 0.5'				
		E308158-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst:	IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/24/23	
Toluene	ND	0.0250	1	08/22/23	08/24/23	
p-Xylene	ND	0.0250	1	08/22/23	08/24/23	
p,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
Total Xylenes	ND	0.0250	1	08/22/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst:	IY		Batch: 2334032
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.8 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g Analyst: JL			Batch: 2334040
Diesel Range Organics (C10-C28)	27.0	25.0	1	08/24/23	08/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/25/23	
Surrogate: n-Nonane		94.3 %	50-200	08/24/23	08/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst:	BA		Batch: 2334058
Chloride	6730	400	20	08/24/23	08/24/23	



	Si	ample D	ala			
Ensolum, LLC	Project Name:	RD	X Federal 21 #042			
3122 National Parks Hwy	Project Numbe	er: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Giovengo			8/28/2023 11:09:34AN
		FS41 - 0.5'				
		E308158-14				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/24/23	
Foluene	ND	0.0250	1	08/22/23	08/24/23	
p-Xylene	ND	0.0250	1	08/22/23	08/24/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
Fotal Xylenes	ND	0.0250	1	08/22/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID		92.9 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: IY		Batch: 2334032
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: JL		Batch: 2334040
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/25/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/25/23	
Surrogate: n-Nonane		96.5 %	50-200	08/24/23	08/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	BA		Batch: 2334058
Chloride	4780	400	20	08/24/23	08/25/23	



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Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 010:	X Federal 21 #042 58-0007 ley Giovengo			Reported: 8/28/2023 11:09:34AM
		FS42 - 0.5'				
		E308158-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/24/23	
Toluene	ND	0.0250	1	08/22/23	08/24/23	
p-Xylene	ND	0.0250	1	08/22/23	08/24/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
Total Xylenes	ND	0.0250	1	08/22/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: IY		Batch: 2334032
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: JL		Batch: 2334040
Diesel Range Organics (C10-C28)	30.8	25.0	1	08/24/23	08/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/25/23	
Surrogate: n-Nonane		94.7 %	50-200	08/24/23	08/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2334058
Chloride	6110	400	20	08/24/23	08/25/23	



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Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numb Project Manaş	er: 010	X Federal 21 #042 58-0007 ley Giovengo			Reported: 8/28/2023 11:09:34AM
		FS43 - 0.5'				
		E308158-16				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/24/23	
Toluene	ND	0.0250	1	08/22/23	08/24/23	
p-Xylene	ND	0.0250	1	08/22/23	08/24/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
Fotal Xylenes	ND	0.0250	1	08/22/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID		93.1 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	IY		Batch: 2334032
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.0 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2334040
Diesel Range Organics (C10-C28)	463	25.0	1	08/24/23	08/25/23	
Dil Range Organics (C28-C36)	337	50.0	1	08/24/23	08/25/23	
Surrogate: n-Nonane		97.4 %	50-200	08/24/23	08/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	BA		Batch: 2334058
Chloride	6500	400	20	08/24/23	08/25/23	



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Ensolum, LLC 3122 National Parks Hwy	Project Name: Project Numbe		X Federal 21 #042 58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ash	ley Giovengo			8/28/2023 11:09:34AM
		FS44 - 0.5'				
		E308158-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/24/23	
Toluene	ND	0.0250	1	08/22/23	08/24/23	
p-Xylene	ND	0.0250	1	08/22/23	08/24/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
Fotal Xylenes	ND	0.0250	1	08/22/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	IY		Batch: 2334032
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	JL		Batch: 2334040
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/25/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/25/23	
Surrogate: n-Nonane		93.1 %	50-200	08/24/23	08/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	BA		Batch: 2334058
Chloride	7630	400	20	08/24/23	08/25/23	



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Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numł Project Mana	ber: 010.	X Federal 21 #04: 58-0007 ley Giovengo	2		Reported: 8/28/2023 11:09:34AM
		FS45 - 0.5'				
		E308158-18				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/24/23	
Toluene	ND	0.0250	1	08/22/23	08/24/23	
p-Xylene	ND	0.0250	1	08/22/23	08/24/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
Fotal Xylenes	ND	0.0250	1	08/22/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2334032
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.0 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2334040
Diesel Range Organics (C10-C28)	108	25.0	1	08/24/23	08/25/23	
Oil Range Organics (C28-C36)	78.5	50.0	1	08/24/23	08/25/23	
Surrogate: n-Nonane		96.1 %	50-200	08/24/23	08/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2334058
Chloride	18600	1000	50	08/24/23	08/25/23	
			50	08/24/23	08/25/23	



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Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numb Project Manag	er: 010	X Federal 21 #04 58-0007 ley Giovengo	2		Reported: 8/28/2023 11:09:34AM
		FS46 - 0.5'				
		E308158-19				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/22/23	08/24/23	
Toluene	ND	0.0250	1	08/22/23	08/24/23	
p-Xylene	ND	0.0250	1	08/22/23	08/24/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
Fotal Xylenes	ND	0.0250	1	08/22/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID		93.1 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2334032
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.7 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2334040
Diesel Range Organics (C10-C28)	94.3	25.0	1	08/24/23	08/25/23	
Oil Range Organics (C28-C36)	85.0	50.0	1	08/24/23	08/25/23	
Surrogate: n-Nonane		93.6 %	50-200	08/24/23	08/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2334058
Chloride	538	40.0	2	08/24/23	08/25/23	



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Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numb Project Manag	oer: 010	X Federal 21 #042 58-0007 ley Giovengo			Reported: 8/28/2023 11:09:34AM
		FS47 - 0.5'				
		E308158-20				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	:: IY		Batch: 2334032
Benzene	ND	0.0250	1	08/22/23	08/24/23	
thylbenzene	ND	0.0250	1	08/22/23	08/24/23	
oluene	ND	0.0250	1	08/22/23	08/24/23	
-Xylene	ND	0.0250	1	08/22/23	08/24/23	
o,m-Xylene	ND	0.0500	1	08/22/23	08/24/23	
fotal Xylenes	ND	0.0250	1	08/22/23	08/24/23	
urrogate: 4-Bromochlorobenzene-PID		93.4 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: IY		Batch: 2334032
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/23	08/24/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	08/22/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: JL		Batch: 2334040
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/25/23	
Dil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/25/23	
Surrogate: n-Nonane		94.5 %	50-200	08/24/23	08/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2334058
Chloride	18700	400	20	08/24/23	08/25/23	



Sample Data

	D	ample D	aca				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numb Project Mana	ber: 010	X Federal 2 58-0007 ley Gioven				Reported: 8/28/2023 11:09:34AM
			-				
		E308158-21					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2334021
Benzene	ND	0.0250		1	08/22/23	08/23/23	
Ethylbenzene	ND	0.0250		1	08/22/23	08/23/23	
Toluene	ND	0.0250		1	08/22/23	08/23/23	
p-Xylene	ND	0.0250		1	08/22/23	08/23/23	
o,m-Xylene	ND	0.0500		1	08/22/23	08/23/23	
Fotal Xylenes	ND	0.0250		1	08/22/23	08/23/23	
Surrogate: Bromofluorobenzene		115 %	70-130		08/22/23	08/23/23	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130		08/22/23	08/23/23	
Surrogate: Toluene-d8		107 %	70-130		08/22/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2334021
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/22/23	08/23/23	
Surrogate: Bromofluorobenzene		115 %	70-130		08/22/23	08/23/23	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130		08/22/23	08/23/23	
Surrogate: Toluene-d8		107 %	70-130		08/22/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	КМ		Batch: 2334041
Diesel Range Organics (C10-C28)	ND	25.0		1	08/23/23	08/24/23	
Dil Range Organics (C28-C36)	ND	50.0		1	08/23/23	08/24/23	
Surrogate: n-Nonane		94.1 %	50-200		08/23/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA	Batch: 2334061	
Chloride	2530	40.0		2	08/24/23	08/24/23	



QC Summary Data

		<u> </u>										
Ensolum, LLC		Project Name:		DX Federal 2	#042				Reported:			
3122 National Parks Hwy		Project Number:		058-0007								
Carlsbad NM, 88220		Project Manager:	As	shley Gioveng	go			8/2	8/2023 11:09:34AM			
		Volatile Organic	Compou	unds by EI	PA 82601	3	Ana					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2334021-BLK1)							Prepared: 0	8/22/23 Anal	yzed: 08/22/23			
Benzene	ND	0.0250							·			
Ethylbenzene	ND	0.0250										
Toluene	ND	0.0250										
o-Xylene	ND	0.0250										
p,m-Xylene	ND	0.0500										
Total Xylenes	ND	0.0250										
Surrogate: Bromofluorobenzene	0.592	0.0250	0.500		118	70-130						
	0.392		0.500		98.1	70-130						
Surrogate: 1,2-Dichloroethane-d4			0.500		98.1 107	70-130						
Surrogate: Toluene-d8	0.534		0.500		10/	70-130						
LCS (2334021-BS1)							Prepared: 0	8/22/23 Anal	yzed: 08/22/23			
Benzene	2.53	0.0250	2.50		101	70-130						
Ethylbenzene	2.47	0.0250	2.50		98.8	70-130						
Toluene	2.50	0.0250	2.50		100	70-130						
o-Xylene	2.61	0.0250	2.50		104	70-130						
p,m-Xylene	5.18	0.0500	5.00		104	70-130						
Total Xylenes	7.79	0.0250	7.50		104	70-130						
Surrogate: Bromofluorobenzene	0.594		0.500		119	70-130						
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130						
Surrogate: Toluene-d8	0.534		0.500		107	70-130						
Matrix Spike (2334021-MS1)				Source:	E308157-	01	Prepared: 0	8/22/23 Anal	yzed: 08/22/23			
Benzene	2.63	0.0250	2.50	ND	105	48-131						
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135						
Toluene	2.61	0.0250	2.50	ND	104	48-130						
o-Xylene	2.77	0.0250	2.50	ND	111	43-135						
p,m-Xylene	5.51	0.0500	5.00	ND	110	43-135						
Total Xylenes	8.28	0.0250	7.50	ND	110	43-135						
Surrogate: Bromofluorobenzene	0.599		0.500		120	70-130						
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130						
Surrogate: Toluene-d8	0.535		0.500		107	70-130						
Matrix Spike Dup (2334021-MSD1)				Source:	E308157-	01	Prepared: 0	8/22/23 Anal	yzed: 08/22/23			
Benzene	2.61	0.0250	2.50	ND	104	48-131	0.877	23				
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	1.56	27				
Toluene	2.57	0.0250	2.50	ND	103	48-130	1.66	24				
o-Xylene	2.75	0.0250	2.50	ND	110	43-135	0.598	27				
p,m-Xylene	5.48	0.0500	5.00	ND	110	43-135	0.637	27				
Total Xylenes	8.23	0.0250	7.50	ND	110	43-135	0.624	27				
Surrogate: Bromofluorobenzene	0.613	0.0250	0.500		123	70-130	5.021					
			0.500		98.3	70-130						
Surrogate: 1,2-Dichloroethane-d4	0.492											
Surrogate: Toluene-d8	0.530		0.500		106	70-130						



QC Summary Data

		QC D	u 1111110	ing Duc					
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	DX Federal 2 1058-0007 .shley Gioveng					Reported: 8/28/2023 11:09:34AM
		, 0	by EPA 802	-		Analyst: IY			
		Reporting	Spike	Source		Rec		RPD	
Analyte	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2334032-BLK1)							Prepared: 0	8/22/23 A	Analyzed: 08/24/23
Benzene	ND	0.0250					-		· ·
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			
LCS (2334032-BS1)							Prepared: 0	8/22/23 A	Analyzed: 08/24/23
Benzene	4.88	0.0250	5.00		97.6	70-130			
Ethylbenzene	4.82	0.0250	5.00		96.3	70-130			
Toluene	4.88	0.0250	5.00		97.6	70-130			
p-Xylene	4.85	0.0250	5.00		97.0	70-130			
o,m-Xylene	9.79	0.0500	10.0		97.9	70-130			
Total Xylenes	14.6	0.0250	15.0		97.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.3	70-130			
Matrix Spike (2334032-MS1)				Source:	E308158-	02	Prepared: 0	8/22/23 A	Analyzed: 08/24/23
Benzene	5.21	0.0250	5.00	ND	104	54-133			
Ethylbenzene	5.12	0.0250	5.00	ND	102	61-133			
Toluene	5.20	0.0250	5.00	ND	104	61-130			
p-Xylene	5.13	0.0250	5.00	ND	103	63-131			
o,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.3	70-130			
Matrix Spike Dup (2334032-MSD1)				Source:	Source: E308158-02		Prepared: 0	8/22/23 A	Analyzed: 08/24/23
Benzene	5.02	0.0250	5.00	ND	100	54-133	3.67	20	
Ethylbenzene	4.96	0.0250	5.00	ND	99.2	61-133	3.13	20	
Toluene	5.01	0.0250	5.00	ND	100	61-130	3.70	20	
		0.0250	5.00	ND	99.1	63-131	3.57	20	
p-Xylene	4.95	0.0230							
p-Xylene p,m-Xylene	4.95	0.0230	10.0	ND	101	63-131	3.36	20	



QC Summary Data

		QC BI		v					
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX Federal 21 91058-0007 Ashley Gioveng					Reported: 8/28/2023 11:09:34AM
	No	onhalogenated O	rganics	by EPA 801	5D - GI	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2334021-BLK1)							Prepared: 0	8/22/23	Analyzed: 08/22/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.592		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			
LCS (2334021-BS2)							Prepared: 0	8/22/23	Analyzed: 08/22/23
Gasoline Range Organics (C6-C10)	50.7	20.0	50.0		101	70-130			
Surrogate: Bromofluorobenzene	0.602		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			
Matrix Spike (2334021-MS2)				Source:]	E308157-()1	Prepared: 0	8/22/23	Analyzed: 08/22/23
Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130			
Surrogate: Bromofluorobenzene	0.602		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			
Matrix Spike Dup (2334021-MSD2)				Source: 1	E308157-()1	Prepared: 0	8/22/23	Analyzed: 08/22/23
Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130	0.325	20	
Surrogate: Bromofluorobenzene	0.589		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			



OC Summary Data

		QC D	u	ary Data	a a				
Ensolum, LLC 3122 National Parks Hwy		Project Name: Project Number:		RDX Federal 21 01058-0007					Reported:
Carlsbad NM, 88220		Project Manager	: .	Ashley Gioveng	0				8/28/2023 11:09:34AM
	Nor	halogenated (Organic	s by EPA 801	15D - GI	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2334032-BLK1)							Prepared: 0	8/22/23 A	nalyzed: 08/24/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			
LCS (2334032-BS2)							Prepared: 0	8/22/23 A	nalyzed: 08/24/23
Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.2	70-130			
Matrix Spike (2334032-MS2)				Source:	E308158-0	02	Prepared: 0	8/22/23 A	nalyzed: 08/24/23
Gasoline Range Organics (C6-C10)	46.5	20.0	50.0	ND	93.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			
Matrix Spike Dup (2334032-MSD2)				Source:	E308158-(02	Prepared: 0	8/22/23 A	nalyzed: 08/24/23
Gasoline Range Organics (C6-C10)	48.6	20.0	50.0	ND	97.3	70-130	4.53	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			



QC Summary Data

		QC BI		ary Data					
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(RDX Federal 21 01058-0007 Ashley Giovengo					Reported: 8/28/2023 11:09:34AM
	Nonh	alogenated Orga	anics by	y EPA 8015D	- DRO	/ORO			Analyst: JL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2334040-BLK1)							Prepared: 0	8/22/23	Analyzed: 08/24/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	50.9		50.0		102	50-200			
LCS (2334040-BS1)							Prepared: 0	8/22/23	Analyzed: 08/24/23
Diesel Range Organics (C10-C28)	242	25.0	250		96.7	38-132			
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			
Matrix Spike (2334040-MS1)				Source: E	308158-	06	Prepared: 0	8/22/23	Analyzed: 08/24/23
Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.7	38-132			
Surrogate: n-Nonane	44.6		50.0		89.3	50-200			
Matrix Spike Dup (2334040-MSD1)				Source: E	308158-	06	Prepared: 0	8/22/23	Analyzed: 08/24/23
Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.9	38-132	1.20	20	
Surrogate: n-Nonane	43.3		50.0		86.5	50-200			



QC Summary Data

		QU D	u	ary Data					
Ensolum, LLC 3122 National Parks Hwy		Project Name: Project Number:		RDX Federal 21 1058-0007	1 #042				Reported:
Carlsbad NM, 88220		Project Manager:	А	Ashley Gioveng	go				8/28/2023 11:09:34AM
	Nonha	alogenated Org	anics 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 (2334041-BLK1)							Prepared: 0	8/23/23 A	Analyzed: 08/23/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.5		50.0		117	50-200			
LCS (2334041-BS1)							Prepared: 0	8/23/23 A	Analyzed: 08/24/23
Diesel Range Organics (C10-C28)	248	25.0	250		99.4	38-132			
Surrogate: n-Nonane	48.2		50.0		96.3	50-200			
Matrix Spike (2334041-MS1)				Source:	E308155-	23	Prepared: 0	8/23/23 A	Analyzed: 08/24/23
Diesel Range Organics (C10-C28)	245	25.0	250	ND	98.2	38-132			
Surrogate: n-Nonane	45.2		50.0		90.5	50-200			
Matrix Spike Dup (2334041-MSD1)				Source:	E308155-	23	Prepared: 0	8/23/23 A	Analyzed: 08/24/23
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.7	38-132	1.54	20	
Surrogate: n-Nonane	47.6		50.0		95.2	50-200			



QC Summary Data

21 #042				
				Reported:
igo				8/28/2023 11:09:34AM
A				Analyst: BA
Rec	Rec Limits	RPD	RPD Limit	
%	%	%	%	Notes
		Prepared: 08	8/24/23	Analyzed: 08/24/23
		Prepared: 08	8/24/23	Analyzed: 08/24/23
101	90-110			
: E308158-0	1	Prepared: 08	8/24/23	Analyzed: 08/24/23
266	80-120			M4
: E308158-0	1	Prepared: 08	8/24/23	Analyzed: 08/24/23
518	80-120	8.33	20	M4
	% 101 266 : E308158-0	5A Rec Limits % % 101 90-110 :: E308158-01 266 80-120 :: E308158-01	Kec Rec Limits RPD % % % % Prepared: 08 08 101 90-110 % % :: E308158-01 Prepared: 08 266 80-120 % % :: E308158-01 Prepared: 08	A Rec RPD RPD Rec Limits RPD Limit % % % % Prepared: 08/24/23 # 101 90-110 * E308158-01 Prepared: 08/24/23 # 266 80-120 * E308158-01 Prepared: 08/24/23 #



QC Summary Data

		$\mathbf{x} \in \mathcal{Z}$	•••••						
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager	(RDX Federal 2)1058-0007 Ashley Gioveng					Reported: 8/28/2023 11:09:34AM
		Anions	by EPA	300.0/90564	4				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2334061-BLK1)							Prepared: 0	8/24/23 <i>A</i>	Analyzed: 08/24/23
Chloride LCS (2334061-BS1)	ND	20.0					Prepared: 0	8/24/23 A	Analyzed: 08/24/23
Chloride	252	20.0	250	_	101	90-110			
Matrix Spike (2334061-MS1)				Source:	E308158-2	21	Prepared: 0	8/24/23 A	Analyzed: 08/24/23
Chloride	2640	40.0	250	2530	41.1	80-120			M4
Matrix Spike Dup (2334061-MSD1)				Source:	E308158-2	21	Prepared: 0	8/24/23 A	Analyzed: 08/24/23
Chloride	2900	40.0	250	2530	145	80-120	9.35	20	M4

QC Summary Report Comment:

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



	Demitions		
Ensolum, LLC	Project Name:	RDX Federal 21 #042	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/28/23 11:09
	3122 National Parks Hwy	Ensolum, LLCProject Name:3122 National Parks HwyProject Number:	3122 National Parks Hwy Project Number: 01058-0007

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

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Release

Page _____ of ____

Received by OCD: 9/27/2023 1:40:51 PM

Page 240 of 264

	Ensolum, LLC				Bill To				Lab U	se On	ly	See The State	TAT					EPA Program	
	RDX Federa				Attention: Jim Raley	in the second second	Lab W	/O#	-0	Job I			1D	2D	2D 3D Sta		ndard	CWA	SDWA
AT LAND	Manager: As				Address: 5315 Buena Vista D		E3	0815	28	010	258	-0007					х		
	: 3122 Natio				City, State, Zip: Carlsbad NM	, 88220				Analy	sis ar	nd Metho	d				E STATE		RCRA
City, Sta	te, Zip: Carls	sbad NM,	88220		Phone: (575)689-7597		h l										1. 1. 1		
Phone:	575-988-005	55			Email: jim.raley@dvn.com		DRO DRO											State	
Email: a	agiovengo@e	ensolum.d	com				0/0	-			0		WN			T	VM CO	UT AZ	TX
Report of	due by:						10/0	807	3260	010	300				Ĭ		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	PH GRC	8015 BTFX hv 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC			Remarks	
10:40	8/18/2023	Soil	1 Jar		FS28 - 0.5'	1		00 4		2	C		×		0				
10:38	8/18/2023	Soil	1 Jar		FS29 - 0.5'	2							x					_	
10:36	8/18/2023	Soil	1 Jar		FS30 - 0.5'	3							x						
10:35	8/18/2023	Soil	1 Jar	-	FS31 - 0.5'	4							x						
10:30	8/18/2023	Soil	1 Jar		FS32 - 0.5'	5							x						
10:43	8/18/2023	Soil	1 Jar		FS33 - 0.5'	6							x				X		
10:46	8/18/2023	Soil	1 Jar		FS34 - 0.5'	7	-						x						
10:48	8/18/2023	Soil	1 Jar		FS35 - 0.5'	8							x						
10:49	8/18/2023	Soil	1 Jar		FS36 - 0.5'	9							x						
11:14	8/18/2023	Soil	1 Jar		FS37 - 0.5'	10							x						
dditior	al Instructio	ns: Plea	ase CC: cl	ourton@ensolu	im.com, agiovengo@ensolum.com	m, jim.raley@dv	n.com,	, chan	nilton	@ens	olun	n.com	-						-
				ty of this sample. I a y be grounds for lega	m aware that tampering with or intentionally al action. Sampled by:	mislabelling the sampl	e location	n,				ring thermal p ed in ice at an							ed or
elinguish	ed by fignatu	re)		21-23 Time 7:			230	me		Rece	ived	on ice:	G	ab U	se On I	nly			
	ed by: (Signatu		Date 8-	21-23 IT	00 Received by: (Signature)	ba B.U.	23	me 171	5	<u>T1</u>			72 T2			<u> </u>	3		
Mg	ed by: (Signatur	nes	Bate B.	21.23 Z	345 auth Ma	~ 8/202	3	5:15	5	AVG	Tem	np°C_	4						
	trix: S - Soil, Sd - S		9 .			Container	Type:	g - glas	ss, p - p	oly/pl	astic	, ag - amb	oer gl	ass, v	- VOA	A			
ote: Sam	ples are discard	ded 30 days	after resul	ts are reported un	less other arrangements are made. Haza atory with this COC. The liability of the lab	ardous samples will	be retur	ned to	client o	or dispo	osed o	of at the cli	ient e	xpens	e. The	e repor	t for the a	nalysis of t	ne above
inpies is	applicable offly	to those sa	amples rect	erved by the labora	atory with this COC. The hability of the lat	bolatory is limited to	o the am	ount p	ald for	on the	repor	rt.	-						
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						Page 36 of 39	Э			-									

Release

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<u>Client:</u>	nsolum, LLC	•				Bill	То	1	1.1	Lab) Us	e On	ly	• 1 · · · ·			TA	AT .	-	EPA P	ogram
	RDX Federal					Attention: Jim Raley		Lab	NO#		,		Numb			2D	3D	Sta	ndard	CWA	SDWA
	Manager: As					Address: 5315 Buena	·· · · · · · · · · · · · · · · · · · ·	E3	501	59	6			0007					X		
	3122 Natio					City, State, Zip: Carlsba	nd NM, 88220	- <u> </u>			A	Analy	sis an	d Metho	d						RCRA
	te, Zip: Carls		88220			Phone: (575)689-7597		-	Ā									L			
	<u>575-988-005</u>				<u> </u>	Email: jim.raley@dvn.o	com		ğ											State	
	giovengo@e	ensolum.c	om						б,	ភ្ល	8	2	8		Σ		ř	Ľ		UT AZ	TX
Report o				<u></u>				-	Š	y 80	Y 82	<u> </u>	de 3	1				┝	×		Ll.
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	
11:15	8/18/2023	Soil	1 Jar		FS38 - 0.5'										x						
11:17	8/18/2023	Soil	1 Jar		FS39 - 0.5'										x						
11:20	8/18/2023	Soil	1 Jar			13								×							
11:22	8/18/2023	Soil	1 Jar			FS41 - 0.5'	14								x						
11:33	8/18/2023	Soil	1 Jar			FS42 - 0.5'	15							-	x						
11:30	8/18/2023	Soil	1 Jar			FS43 - 0.5'	16								x						
11:27	8/18/2023	Soil	1 Jar			FS44 - 0.5'	17								x						
11:27	8/18/2023	Soil	1 Jar		FS45 - 0.5'		17								x						
11:25	8/18/2023	Soil	1 Jar			FS46 - 0.5'	19								x						
11:15	8/18/2023	Soil	1 Jar			FS47 - 0.5'	20						-		x						
Additior	al Instructio	ns: Plea	ase CC: c	burton@e	nsolum.	.com, agiovengo@ensolu		vn.cor	n, ch	amilto	on@	9ens	olum	.com	<u> </u>						
	pler), attest to th e of collection is c					ware that tampering with or inter ction. Sampled by:	tionally mislabelling the samp	le locat	ion,										n ice the day 6 °C on subs	they are samp equent days.	ed or
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NOTE: 24U						s other arrangements are mad ry with this COC. The liability o								i al the Ci t.	ient e	xpens	e. 10	e repoi	it for the a	malysis of t	ne above

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	nsolum, LLC.			and a		5	Bill To	-	1	rraesolitete a. Hi		ab U	se Or	nly					AT		EPA P	ogram
	RDX Federal						ention: Jim Raley	in the second	Lat	WO#	-	T	Job			1D	2D	3D	St	andard	CWA	SDWA
	Manager: As						dress: 5315 Buena Vista Dr		E	306	12				-0007					x	-	
	3122 Natio					indiana and a second second	, State, Zip: Carlsbad NM,	88220	-	_			Analy	/sis a	nd Metho	bd			_	all an		RCRA
	te, Zip: Carls		88220				one: (575)689-7597		-	Vd C												
	575-988-005					Em	ail: jim.raley@dvn.com		-	ORC	10										State	
	giovengo@e	nsolum.c	om			and the				DRO/	21	00	0	0.00		MN		X		NM CO	UT AZ	TX
Report c	lue by:								-	RO/I	y 80	y 82	\$ 601	de 3(×		
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	
11:12	8/18/2023	Soil	1 Jar				FS48 - 0.5'	21								x						
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Addition	al Instructio	ns: Plea	ase CC: c	burton@e	ensolu	m.com	, agiovengo@ensolum.com	n, jim.raley@d	vn.co	om, ch	amil	lton(@ens	solur	n.com	1	-					
	pler), attest to th e of collection is c						hat tampering with or intentionally n Sampled by:	hislabelling the sam	ole loc	ation,										on ice the day in 6 °C on subse		ed or
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Relinquish	ed by: (Signatu	re) M/H	Date	7.1.13	Time	345	Received by Signature	Date Date	1/2	Time	15	-		Ton	np °C_	H				13		
ample Ma	trix: S - Soil, Sd - S	Solid Se - Sh	Idge A - An	HEOUS O- Oth	1 U	5.5	June man	Containe	or Typ	10	lass				c, ag - am	here	lace v	(- VO	Δ		1	5
Note: Sam	ples are discard	ded 30 days	s after resu	Its are repor	rted un		r arrangements are made. Haza n this COC. The liability of the lab	rdous samples wil	l be r	eturnec	to cl	ient c	or disp	osed	of at the c					ort for the a	inalysis of t	he above
anipies is	approvine only		anipies let	in our of the				is inficed		amour	in puit	aiori	on the	repe					1-12	-	t c	

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

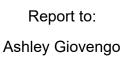
	Ensolum, LLC Da	ate Received:	08/22/23	08:15	Work Order ID:	E308158
Phone:	(575) 988-0055 Da	te Logged In:	08/22/23	09:09	Logged In By:	Caitlin Mars
Email:	a.giovengo@ensolum.com Du	ie Date:	08/28/23	17:00 (4 day TAT)		
Chain of	f Custody (COC)					
	the sample ID match the COC?		Yes			
	the number of samples per sampling site location match	the COC	Yes			
	samples dropped off by client or carrier?		Yes	Carrier: Courie	r	
	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes	Currer. <u>Courre</u>		
	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	·	Yes		Comme	nts/Resolution
Sample '	<u>Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes,	, was cooler received in good condition?		Yes			
9. Was th	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
-	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re-		Yes			
13. If no	minutes of sampling visible ice, record the temperature. Actual sample ter	nperature: <u>4°</u>	<u>C</u>			
Sample	<u>Container</u>					
	aqueous VOC samples present?		No			
15. Are V	VOC samples collected in VOA Vials?		NA			
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
17. Was a			Yes			
	non-VOC samples collected in the correct containers?		103			
18. Are r	non-VOC samples collected in the correct containers? a appropriate volume/weight or number of sample containers	collected?	Yes			
18. Are r	appropriate volume/weight or number of sample containers	collected?				
 18. Are r 19. Is the Field La 	appropriate volume/weight or number of sample containers					
 18. Are r. 19. Is the Field La 20. Were S 	appropriate volume/weight or number of sample containers bel e field sample labels filled out with the minimum inform Sample ID?					
18. Are r 19. Is the Field La 20. Were S	appropriate volume/weight or number of sample containers <u>ubel</u> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected?		Yes Yes Yes			
18. Are r 19. Is the Field La 20. Were S I	appropriate volume/weight or number of sample containers <u>bel</u> e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name?		Yes			
18. Are r 19. Is the Field La 20. Were S C Sample J	appropriate volume/weight or number of sample containers bel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u>	ation:	Yes Yes Yes Yes			
 18. Are r 19. Is the Field La 20. Were S C Sample J 21. Does 	e appropriate volume/weight or number of sample containers bel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese	ation:	Yes Yes Yes Yes No			
18. Are r 19. Is the Field La 20. Were S C Sample J 21. Does 22. Are s	e appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were preses sample(s) correctly preserved?	ation: erved?	Yes Yes Yes No NA			
 18. Are r 19. Is the Field La 20. Were 20. Were Sample 1 21. Does 22. Are s 24. Is lab 	appropriate volume/weight or number of sample containers bel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation a the COC or field labels indicate the samples were prese sample(s) correctly preserved? o filteration required and/or requested for dissolved meta	ation: erved?	Yes Yes Yes Yes No			
18. Are r 19. Is the Field La 20. Were S C Sample J 21. Does 22. Are s 24. Is lab Multiphi	appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation a the COC or field labels indicate the samples were prese sample(s) correctly preserved? o filteration required and/or requested for dissolved meta uses Sample Matrix	ation: erved? .ls?	Yes Yes Yes No NA No			
 18. Are r 19. Is the Field La 20. Were 20. Were Sample 1 21. Does 22. Are s 24. Is lab Multiph: 26. Does 	appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation is the COC or field labels indicate the samples were prese sample(s) correctly preserved? o filteration required and/or requested for dissolved meta hase Sample Matrix is the sample have more than one phase, i.e., multiphase?	ation: rved? ls?	Yes Yes Yes No NA No			
 18. Are r 19. Is the Field La 20. Were S C Sample 1 21. Does 22. Are s 24. Is lab Multiph: 26. Does 	appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation a the COC or field labels indicate the samples were prese sample(s) correctly preserved? o filteration required and/or requested for dissolved meta uses Sample Matrix	ation: rved? ls?	Yes Yes Yes No NA No			
18. Are r 19. Is the Field La 20. Were S C Sample 1 21. Does 22. Are s 24. Is lab Multiph 26. Does 27. If yes	appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation is the COC or field labels indicate the samples were prese sample(s) correctly preserved? o filteration required and/or requested for dissolved meta hase Sample Matrix is the sample have more than one phase, i.e., multiphase?	ation: rved? ls?	Yes Yes Yes No NA No			
18. Are r 19. Is the Field La 20. Were S C Sample 1 21. Does 22. Are s 24. Is lab Multiph: 26. Does 27. If yes Subcont	e appropriate volume/weight or number of sample containers bel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation is the COC or field labels indicate the samples were prese sample(s) correctly preserved? to filteration required and/or requested for dissolved meta tase Sample Matrix is the sample have more than one phase, i.e., multiphase? s, does the COC specify which phase(s) is to be analyzed	ation: vrved? lls? d?	Yes Yes Yes No NA No			

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



envirotech Inc.

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5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Ensolum, LLC

Project Name: RDX Federal 21 #041

Work Order: E309054

Job Number: 01058-0007

Received: 9/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/13/23

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

Date Reported: 9/13/23

Ashley Giovengo 3122 National Parks Hwy Carlsbad, NM 88220

Project Name: RDX Federal 21 #041 Workorder: E309054 Date Received: 9/8/2023 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/8/2023 6:00:00AM, under the Project Name: RDX Federal 21 #041.

The analytical test results summarized in this report with the Project Name: RDX Federal 21 #041 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

Field Offices:

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

Envirotech Web Address: www.envirotech-inc.com



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		Sample Sum	mary	
Ensolum, LLC		Project Name:	RDX Federal 21 #041	Reported:
3122 National Parks Hwy		Project Number:	01058-0007	Reported:
Carlsbad NM, 88220		Project Manager:	Ashley Giovengo	09/13/23 13:57
Client Sample ID	Lab Sample ID	Matrix	Sampled Received	Container

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS07 - 4'	E309054-01A	Soil	09/06/23	09/08/23	Glass Jar, 2 oz.
SW06 - 1'	E309054-02A	Soil	09/06/23	09/08/23	Glass Jar, 2 oz.



	S	ample D	ata			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name Project Numl Project Mana	ber: 0105	K Federal 21 58-0007 ley Giovengo			Reported: 9/13/2023 1:57:35PM
		FS07 - 4'				
		E309054-01				
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	nalyst: RKS		Batch: 2337004
Benzene	ND	0.0250	1	09/11/23	09/11/23	
Ethylbenzene	ND	0.0250	1	09/11/23	09/11/23	
Toluene	ND	0.0250	1	09/11/23	09/11/23	
p-Xylene	ND	0.0250	1	09/11/23	09/11/23	
o,m-Xylene	ND	0.0500	1	09/11/23	09/11/23	
Total Xylenes	ND	0.0250	1	09/11/23	09/11/23	
Surrogate: Bromofluorobenzene		105 %	70-130	09/11/23	09/11/23	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130	09/11/23	09/11/23	
Surrogate: Toluene-d8		101 %	70-130	09/11/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	nalyst: RKS		Batch: 2337004
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/23	09/11/23	
Surrogate: Bromofluorobenzene		105 %	70-130	09/11/23	09/11/23	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130	09/11/23	09/11/23	
Surrogate: Toluene-d8		101 %	70-130	09/11/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	А	.nalyst: KM		Batch: 2337027
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/23	09/13/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/12/23	09/13/23	
Surrogate: n-Nonane		112 %	50-200	09/12/23	09/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	.nalyst: BA		Batch: 2337014
Chloride	353	200	10	09/11/23	09/12/23	



	56	ample D	ata			
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: Project Numbe Project Manag	er: 010:	K Federal 21 58-0007 ley Gioveng			Reported: 9/13/2023 1:57:35PM
		SW06 - 1'				
		E309054-02				
		Reporting				
Analyte	Result	Limit	Dilu	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2337004
Benzene	ND	0.0250	1	09/11/23	09/12/23	
Ethylbenzene	ND	0.0250	1	09/11/23	09/12/23	
Toluene	ND	0.0250	1	09/11/23	09/12/23	
p-Xylene	ND	0.0250	1	09/11/23	09/12/23	
o,m-Xylene	ND	0.0500	1	09/11/23	09/12/23	
Fotal Xylenes	ND	0.0250	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene		110 %	70-130	09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	09/11/23	09/12/23	
Surrogate: Toluene-d8		103 %	70-130	09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2337004
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene		110 %	70-130	09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	09/11/23	09/12/23	
Surrogate: Toluene-d8		103 %	70-130	09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2337027
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/23	09/13/23	
Dil Range Organics (C28-C36)	ND	50.0	1	09/12/23	09/13/23	
Surrogate: n-Nonane		112 %	50-200	09/12/23	09/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2337014
Chloride	88.8	40.0	2	09/11/23	09/12/23	



QC Summary Data

	<u><u>v</u>c 51</u>		ii j Duu	•						
	Project Name:	RI	DX Federal 21	#041				Reported:		
	Project Number:	01	058-0007							
	Project Manager:	As	shley Gioveng	0			9/	13/2023 1:57:35PM		
	Volatile Organic	Compo	unds by EP	A 8260I	3			Analyst: RKS		
	Reporting	Spike	Source		Rec		RPD			
Result	Limit	Level	Result	Rec	Limits	RPD	Limit			
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
						Prepared: 09	9/11/23 Ana	lyzed: 09/11/23		
ND	0.0250									
ND	0.0250									
ND	0.0250									
ND	0.0250									
ND	0.0500									
ND	0.0250									
0.547		0.500		109	70-130					
		0.500		93.1	70-130					
0.513		0.500		103	70-130					
						Prepared: 0	9/11/23 Ana	lyzed: 09/11/23		
2 49	0.0250	2 50		99.4	70-130	1		5		
	0.0250									
0.484		0.500		96.7	70-130					
0.501		0.500		100	70-130					
			Source:	E309054-(01	Prepared: 09	9/11/23 Ana	lyzed: 09/11/23		
2.51	0.0250	2.50	ND	100	48-131					
	0.0250									
2.49	0.0250	2.50	ND	99.7	48-130					
2.67	0.0250	2.50	ND	107	43-135					
	0.0500									
7.87	0.0250		ND							
0.536		0.500		107	70-130					
0.468		0.500		93.6	70-130					
0.498		0.500		99.6	70-130					
			Source: 1	E309054-0	01	Prepared: 09	9/11/23 Ana	lyzed: 09/12/23		
2.50	0.0250	2.50	ND	99.9	48-131	0.400	23			
2.59	0.0250	2.50	ND	104	45-135	0.328	27			
2.49	0.0250	2.50	ND	99.5	48-130	0.221	24			
		2.50	ND	107	43-135	0.430	27			
2.68	0.0250	2.50	ND	107			27			
	0.0250 0.0500	2.50 5.00	ND	105	43-135	0.623	27			
2.68										
2.68 5.23	0.0500	5.00	ND	105	43-135	0.623	27			
2.68 5.23 7.91	0.0500	5.00 7.50	ND	105 105	43-135 43-135	0.623	27			
	Result mg/kg ND ND ND ND ND ND ND 0.547 0.466 0.513 2.49 2.57 2.48 2.67 5.22 7.89 0.527 0.484 0.501 2.51 2.58 2.49 2.57 2.48 0.527 0.484 0.501 2.51 2.58 2.49 2.67 5.20 7.87 0.536 0.468 0.498	Project Name: Project Number: Project Manager: Volatile Organic Result mg/kg Reporting Limit mg/kg ND 0.0250 0.547 0.0250 0.547 0.0250 0.547 0.0250 0.513 0.0250 2.57 0.0250 2.57 0.0250 2.57 0.0250 2.67 0.0250 0.527 0.484 0.501 0.0250 2.58 0.0250 2.67 0.0250 2.67 0.0250 2.67 0.0250 2.50 0.0500 7.87 0.0250 <t< td=""><td>Project Name: RI Project Number: 01 Project Manager: As Volatile Organic Comporting Spike Result Reporting Spike mg/kg mg/kg mg/kg ND 0.0250 mg/kg ND 0.0250 ND ND 0.0250 ND ND 0.0250 ND ND 0.0250 ND 0.547 0.500 ND 0.547 0.300 0.500 ND 0.0250 2.50 2.57 0.0250 2.50 2.57 0.0250 2.50 2.57 0.0250 2.50 2.57 0.0250 2.50 2.50 2.50 2.50 2.51 0.0250 7.50 0.527 0.500 5.00 0.501 0.502 2.50 2.51 0.0250 2.50 2.51 0.0250 2.50</td><td>Project Name: RDX Federal 21 01058-0007 Project Manager: Ashley Gioveng Volatile Organic Compounds by EP Result Reporting Limit Spike Level Source Result mg/kg mg/kg mg/kg mg/kg ND 0.0250 ng/kg mg/kg ND 0.0250 nD 0.0250 0.547 0.500 nD 0.0250 0.547 0.0250 2.50 1.50 2.48 0.0250 2.50 1.50 2.57 0.0250 2.50 1.50 2.57 0.500 5.00 7.50 0.527 0.500 5.00 ND 0.527 0.500 1.50 ND 2.58 <</td><td>Project Number: 01058-0007 Project Manager: Ashley Giovengo Volatile Organic Compounds by EPA 82601 Result Reporting Limit Spike Level Source Result Rec MD 0.0250 mg/kg mg/kg % ND 0.0250 mg/kg 109 ND 0.0250 109 ND 0.0250 103 0.547 0.500 103 0.513 0.500 103 2.49 0.0250 2.50 103 2.48 0.0250 2.50 103 2.49 0.0250 2.50 104 7.89 0.0250 2.50 105 0.527 0.500 105 104 7.89 0.0250 2.50 ND 107 0.526 2.50 N</td><td>Project Name: Project Number: Project Manager: RDX Federal 21 #041 01058-0007 Ashley Giovengo Volatile Organic Compounds by EPA 8260B Result mg/kg Reporting Limit mg/kg Spike Source mg/kg Source Result mg/kg Rec % Rec Limits % ND 0.0250 ND 0.0250 % % ND 0.0250 70-130 0.513 0.500 103 70-130 2.49 0.0250 2.50 103 70-130 2.44 0.0250 2.50 103 70-130 2.47 0.0250 2.50 103 70-130 2.48 0.0250 7.50 105 70-130 2.49 0.0250 2.50</td><td>Project Name: RDX Federal 21 #041 Project Number: 01058-0007 Project Manager: Ashley Giovengo Volatile Organic Compounds by EPA 8260B Result Reporting mg/kg Spike mg/kg Source Result Rec Mec Limit RPD MD 0.0250 mg/kg mg/kg % % % ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 Prepared: 0 0.347 0.500 109 70-130 0.466 0.500 99.4 70-130 0.466 0.500 103 70-130 0.466 0.500 103 70-130 2.49 0.0250 2.50 103 70-130 2.48 0.0250 2.50 103 70-130 2.51 0.0250 2.50 103 70-130 2.52 0.500 104 70-130 70-130 2.52 0.500 103</td><td>Project Name: RDX Federal 21 #041 Project Number: 01058-0007 90 Volatile Organic Compounds by EPA 8260B Reporting Spike Source Rec Rep RPD Limit mg/kg mg/kg mg/kg mg/kg mg/kg %</td></t<>	Project Name: RI Project Number: 01 Project Manager: As Volatile Organic Comporting Spike Result Reporting Spike mg/kg mg/kg mg/kg ND 0.0250 mg/kg ND 0.0250 ND ND 0.0250 ND ND 0.0250 ND ND 0.0250 ND 0.547 0.500 ND 0.547 0.300 0.500 ND 0.0250 2.50 2.57 0.0250 2.50 2.57 0.0250 2.50 2.57 0.0250 2.50 2.57 0.0250 2.50 2.50 2.50 2.50 2.51 0.0250 7.50 0.527 0.500 5.00 0.501 0.502 2.50 2.51 0.0250 2.50 2.51 0.0250 2.50	Project Name: RDX Federal 21 01058-0007 Project Manager: Ashley Gioveng Volatile Organic Compounds by EP Result Reporting Limit Spike Level Source Result mg/kg mg/kg mg/kg mg/kg ND 0.0250 ng/kg mg/kg ND 0.0250 nD 0.0250 0.547 0.500 nD 0.0250 0.547 0.0250 2.50 1.50 2.48 0.0250 2.50 1.50 2.57 0.0250 2.50 1.50 2.57 0.500 5.00 7.50 0.527 0.500 5.00 ND 0.527 0.500 1.50 ND 2.58 <	Project Number: 01058-0007 Project Manager: Ashley Giovengo Volatile Organic Compounds by EPA 82601 Result Reporting Limit Spike Level Source Result Rec MD 0.0250 mg/kg mg/kg % ND 0.0250 mg/kg 109 ND 0.0250 109 ND 0.0250 103 0.547 0.500 103 0.513 0.500 103 2.49 0.0250 2.50 103 2.48 0.0250 2.50 103 2.49 0.0250 2.50 104 7.89 0.0250 2.50 105 0.527 0.500 105 104 7.89 0.0250 2.50 ND 107 0.526 2.50 N	Project Name: Project Number: Project Manager: RDX Federal 21 #041 01058-0007 Ashley Giovengo Volatile Organic Compounds by EPA 8260B Result mg/kg Reporting Limit mg/kg Spike Source mg/kg Source Result mg/kg Rec % Rec Limits % ND 0.0250 ND 0.0250 % % ND 0.0250 70-130 0.513 0.500 103 70-130 2.49 0.0250 2.50 103 70-130 2.44 0.0250 2.50 103 70-130 2.47 0.0250 2.50 103 70-130 2.48 0.0250 7.50 105 70-130 2.49 0.0250 2.50	Project Name: RDX Federal 21 #041 Project Number: 01058-0007 Project Manager: Ashley Giovengo Volatile Organic Compounds by EPA 8260B Result Reporting mg/kg Spike mg/kg Source Result Rec Mec Limit RPD MD 0.0250 mg/kg mg/kg % % % ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 Prepared: 0 0.347 0.500 109 70-130 0.466 0.500 99.4 70-130 0.466 0.500 103 70-130 0.466 0.500 103 70-130 2.49 0.0250 2.50 103 70-130 2.48 0.0250 2.50 103 70-130 2.51 0.0250 2.50 103 70-130 2.52 0.500 104 70-130 70-130 2.52 0.500 103	Project Name: RDX Federal 21 #041 Project Number: 01058-0007 90 Volatile Organic Compounds by EPA 8260B Reporting Spike Source Rec Rep RPD Limit mg/kg mg/kg mg/kg mg/kg mg/kg %		



QC Summary Data

				ary Data	•				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	C	RDX Federal 21)1058-0007 Ashley Gioveng					Reported: 9/13/2023 1:57:35PM
	No	onhalogenated O	rganics	s by EPA 801	15D - GF	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2337004-BLK1)							Prepared: 0	9/11/23 <i>A</i>	Analyzed: 09/11/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.547		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			
LCS (2337004-BS2)							Prepared: 0	9/11/23 A	Analyzed: 09/11/23
Gasoline Range Organics (C6-C10)	53.3	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.536		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			
Matrix Spike (2337004-MS2)				Source:	E309054-0)1	Prepared: 0	9/11/23 A	Analyzed: 09/12/23
Gasoline Range Organics (C6-C10)	56.4	20.0	50.0	ND	113	70-130			
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.7	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			
Matrix Spike Dup (2337004-MSD2)				Source:	E309054-0)1	Prepared: 0	9/11/23 A	Analyzed: 09/12/23
Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130	5.78	20	
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
	0.482		0.500		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.000		20.4	70 150			



QC Summary Data

		QC D	u 111111	ary Data	u					
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	RDX Federal 21 01058-0007 Ashley Gioveng					Reported: 9/13/2023 1:57:35PM	
	Nonha	alogenated Org	anics by	v EPA 8015D) - DRO	/ORO			Analyst: KM	
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes	
Blank (2337027-BLK1)							Prepared: 0	9/12/23 A	nalyzed: 09/12/23	
Diesel Range Organics (C10-C28)	ND	25.0								
Oil Range Organics (C28-C36)	ND	50.0								
Surrogate: n-Nonane	57.0		50.0		114	50-200				
LCS (2337027-BS1)				F				Prepared: 09/12/23 Analyzed: 09/12/23		
Diesel Range Organics (C10-C28)	274	25.0	250		109	38-132				
Surrogate: n-Nonane	54.2		50.0		108	50-200				
Matrix Spike (2337027-MS1)				Source: E309091-03			Prepared: 09/12/23 Analyzed: 09/12/23			
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132				
Surrogate: n-Nonane	54.8		50.0		110	50-200				
Matrix Spike Dup (2337027-MSD1)				Source: E309091-03			Prepared: 09/12/23 Analyzed: 09/12/23			
Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	38-132	1.15	20		
Surrogate: n-Nonane	56.9		50.0		114	50-200				



Received by OCD: 9/27/2023 1:40:51 PM

QC Summary Data

		$\mathbf{x} \in \mathbf{z}$			~				
Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	(RDX Federal 2 01058-0007 Ashley Gioveng					Reported: 9/13/2023 1:57:35PM
		Anions	by EPA	300.0/90564	۸				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2337014-BLK1)							Prepared: 0	9/11/23 /	Analyzed: 09/11/23
Chloride LCS (2337014-BS1)	ND	20.0					Prepared: 0	9/11/23 /	Analyzed: 09/11/23
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2337014-MS1)				Source:	E309048-	01	Prepared: 0	9/11/23	Analyzed: 09/11/23
Chloride	248	20.0	250	ND	99.1	80-120			
Matrix Spike Dup (2337014-MSD1)				Source:	E309048-	01	Prepared: 0	9/11/23	Analyzed: 09/12/23
Chloride	250	20.0	250	ND	99.8	80-120	0.756	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.



Γ	Ensolum, LLC	Project Name:	RDX Federal 21 #041	
I	3122 National Parks Hwy	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/13/23 13:57

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Release Project Information

Received by OCD: 9/27/2023 1:40:51 PM

	solum, LLC.				1999	Bill To			100			se Or					TA	T	EPA P	rogram
Project: RI						ttention: Jim Raley		Lab V	VO#	Q		Job	Num	.0007	1D	2D	3D	Standard	CWA	SDWA
Project Ma	the second s					ddress: 5315 Buena Vista Dr		E3	09	105	54	OK	158	.0007				x		
Address: 3					1 A A A A A A A A A A A A A A A A A A A	ity, State, Zip: Carlsbad NM, 88	220					Analy	ysis a	nd Metho	d					RCRA
City, State,			88220		P	hone: (575)689-7597			ha											
Phone: 57					E	mail: jim.raley@dvn.com		- 040	HC KC										State	
Email: agio		nsolum.c	om					100	KU	51	0	0	0.0		MN		X	NM CO	UT AZ	TX
Report due	e by:						-			/ 80	826	601	e 30					×	5 1 1 2	
Time D. Sampled D.	ate Sampled	Matrix	No. of Containers	Sample ID			Lab Number		1РН GKU/JKU/UKU BY 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	
10:49 9	9/6/2023	Soil	1 Jar			FS07 - 4'	1								x					
11:30 9	9/6/2023	Soil	1 Jar			SW06 - 1'	2								x					
									-	_						-				
										-						-			-	
									-	-	-					-				
10 C		_					and the second													
Additional	Instruction	ns: Plea	ise CC: cl	ourton@enso	lum.co	m, agiovengo@ensolum.com, j	m.raley@dv	n.com	n, ch	amil	ton(@ens	solur	n.com						
				ty of this sample. I by be grounds for le		e that tampering with or intentionally misla a. <u>Sampled by:</u>	belling the samp	le locatio	on,									ceived on ice the day ess than 6 °C on subs		led or
Leh	by: (Signatur	ъ	Date 9-	7-23 7	:08	Received by: (Signature)	- 9-7-	23	ime D	708	Ţ	Rece	eiveo	d on ice:	K	ab Us	se On	ly .		
Relinguished MCUU Relinguished	by: (Signatur	e) males	_ Date	723 15		Received by: (Signature)	Date 4 - 7	T		315	5	T1			T2			ТЗ		
Relinquished		1160	Date 9.	8.23 Z	43	Received by: signature	Date 9.8.2	23	ime 0	00	2	AVG	Ten	np °C_	4					
Sample Matrix:	: S - Soil, Sd - Se	olid, Sg - Slu	dge, A - Aqu	eous, O - Other	- se		Containe	r Type:	g - g	lass,	_	_	_	c, ag - amb	per gl	ass, v	- VOA			
Note: Sample	es are discard	ed 30 days	after resu	Its are reported u		her arrangements are made. Hazardo vith this COC. The liability of the labora	us samples wil	l be retu	urned	to cli	ient c	or disp	osed	of at the cli					analysis of t	he above

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

	Ensolum, LLC D	ate Received:	09/08/23	06:00	Work Order ID:	E309054
Phone:	(575) 988-0055 D	ate Logged In:	09/07/23	16:34	Logged In By:	Alexa Michaels
Email:	a.giovengo@ensolum.com	ue Date:	09/14/23	17:00 (4 day TAT)		
Chain of	f Custody (COC)					
1. Does t	he sample ID match the COC?		Yes			
2. Does t	he number of samples per sampling site location match	the COC	Yes			
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	ne COC complete, i.e., signatures, dates/times, requester	d analyses?	Yes			
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e. 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	s/Resolution
Sample '	Turn Around Time (TAT)					
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	•					
	sample cooler received?		Yes			
	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?		No			
	s, were custody/security seals intact?		NA			
-	he sample received on ice? If yes, the recorded temp is 4°C, i.e	6°+1°C	Yes			
12. was u	Note: Thermal preservation is not required, if samples are re- minutes of sampling		105			
13. If no	visible ice, record the temperature. Actual sample te	mperature: <u>4°</u>	<u>C</u>			
Sample	<u>Container</u>					
14. Are a	aqueous VOC samples present?		No			
15. Are V	VOC samples collected in VOA Vials?		NA			
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was :	a trip blank (TB) included for VOC analyses?		NA			
18. Are r	non-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample container	s collected?	Yes			
Field La	<u>bel</u>					
20. Were	field sample labels filled out with the minimum inform	nation:				
	Sample ID?		Yes			
S	Data/Tima Callastad?		Yes			
Ι	Date/Time Collected?					
I C	Collectors name?		Yes			
I (<u>Sample</u>]	Collectors name? Preservation	amzad?				
I (<u>Sample]</u> 21. Does	Collectors name? <u>Preservation</u> the COC or field labels indicate the samples were pres	erved?	No			
[(<u>Sample</u>] 21. Does 22. Are s	Collectors name? <u>Preservation</u> the COC or field labels indicate the samples were pres sample(s) correctly preserved?		No NA			
[(<u>Sample</u>] 21. Does 22. Are s 24. Is lab	Collectors name? <u>Preservation</u> the COC or field labels indicate the samples were pres sample(s) correctly preserved? o filteration required and/or requested for dissolved met		No			
[(<u>Sample</u>] 21. Does 22. Are s 24. Is lab <u>Multiph</u>	Collectors name? <u>Preservation</u> the COC or field labels indicate the samples were pres sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix	als?	No NA No			
I Sample 1 21. Does 22. Are s 24. Is lab Multiph 26. Does	Collectors name? <u>Preservation</u> the COC or field labels indicate the samples were pres sample(s) correctly preserved? o filteration required and/or requested for dissolved met <u>ase Sample Matrix</u> the sample have more than one phase, i.e., multiphase?	als?	No NA No No			
[Sample] 21. Does 22. Are s 24. Is lat Multiph 26. Does 27. If yes	Collectors name? Preservation the COC or field labels indicate the samples were pres sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix the sample have more than one phase, i.e., multiphase? s, does the COC specify which phase(s) is to be analyzed	als?	No NA No			
I C Sample 2 21. Does 22. Are s 24. Is lab Multiph 26. Does 27. If yes Subcont	Collectors name? Preservation the COC or field labels indicate the samples were pres sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix the sample have more than one phase, i.e., multiphase? s, does the COC specify which phase(s) is to be analyze ract Laboratory	als? ? :d?	No NA No NA			
I C Sample 2 21. Does 22. Are s 24. Is lab Multiph 26. Does 27. If yes Subcont 28. Are s	Collectors name? Preservation the COC or field labels indicate the samples were pres sample(s) correctly preserved? o filteration required and/or requested for dissolved met ase Sample Matrix the sample have more than one phase, i.e., multiphase? s, does the COC specify which phase(s) is to be analyzed	als? , , , ,	No NA No No			

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



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APPENDIX F

Email Correspondence

From:	Raley, Jim
То:	Hamlet, Robert, EMNRD
Cc:	Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD; Ashley Giovengo
Subject:	RE: [EXTERNAL] RE: Extension Request RDX 21-41 nAPP2305933356
Date:	Tuesday, August 1, 2023 8:05:47 AM
Attachments:	image001.png

[**EXTERNAL EMAIL**]

Robert,

On February 20th, 2023 we had an flare fire which discharged approx. 1 bbl of fluids on to brush offsite. This site is on federal land. Prior to cleanup BLM requested a cultural survey as well as a biological survey for Scheers Beehive Cactus.

A 90 day extension was granted by NMOCD for August, 19th 2023.

On July 26th, 2023 formal permission to proceed with remediation was granted by the BLM after review of the cultural and biological survey results. WPX Energy will not be able to complete the remediation and reporting by the current due date.

WPX Energy respectfully asks for an additional extension to November 1st, 2023 to complete remediation and reporting for this incident, due to the delay imposed by required BLM cultural and biological surveys.

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



From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Friday, June 2, 2023 1:32 PM
To: Raley, Jim <Jim.Raley@dvn.com>
Cc: Jerrod.Inskeep@wescominc.com; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Extension Request RDX 21-41 nAPP2305933356

RE: Incident #NAPP2305933356

Jim,

Your request for an extension to **August 19th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Buchanan, Michael, EMNRD <<u>Michael.Buchanan@emnrd.nm.gov</u>>
Sent: Friday, June 2, 2023 9:19 AM
To: Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>
Cc: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@emnrd.nm.gov</u>>
Subject: FW: [EXTERNAL] RE: Extension Request RDX 21-41 nAPP2305933356

Good morning,

Please see request below

From: Raley, Jim <<u>Jim.Raley@dvn.com</u>>
Sent: Thursday, June 1, 2023 6:41 AM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>
Cc: Jerrod Inskeep <<u>Jerrod.Inskeep@wescominc.com</u>>
Subject: [EXTERNAL] RE: Extension Request RDX 21-41 nAPP2305933356

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

District II NMOCD,

I have not gotten a response on this extension request. However, as stated due to BLM request for a threatened plant survey, we are forced to extend this project.

Please let me know if you have any concerns.

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



From: Raley, Jim
Sent: Tuesday, May 9, 2023 2:11 PM
To: OCD.Enviro@emnrd.nm.gov
Cc: Jerrod Inskeep <<u>Jerrod.Inskeep@wescominc.com</u>>
Subject: Extension Request RDX 21-41 nAPP2305933356

District II NMOCD,

On 02/20/2023 we had a flare burp that discharged approx. ½ bbl of fluids to the pasture area at the RDX 21-41 pad. A small fire developed at the base of the flare which made this incident reportable. Remediation would require assessment and possible removal of soils from around the base of the flare and out into the pasture area, the surface is federal BLM land. A map of the spill area was submitted to BLM along with a Sundry request asking for permission to evaluate and remove impacted soils. BLM responsed that a survey would be needed to identify any threatened species of Scheers Beehive Cactus, before we could proceed. An outside consultant has been secured to conduct this survey and communicate the findings to BLM before we proceed. \

Toi be able to conduct this survey will push the remediation past 90 days. WPX Energy respectfully requests a 90 day extension to August 19th, 2023, to comply with BLM request.

nAPP2305933356 RDX 21-41 30-015-41269

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



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

From:	Ashley Giovengo
То:	Enviro, OCD, EMNRD; Morgan, Crisha A
Cc:	Raley, Jim; Chad Hamilton; Cole Burton
Subject:	48-hour Confirmation Sampling Notification Email - RDX Federal 21 #041 & RDX Federal 21 #042 - Incident Numbers nAPP2305933356 & nAPP2320173651
Date:	Friday, August 11, 2023 7:59:26 AM
Attachments:	image001.png image002.png image003.png image004.png

Hello,

We intend to collect confirmation samples at Devon Energy's RDX Federal 21 #041 and RDX Federal 21 #042 site (nAPP2305933356 & nAPP2320173651) on Tuesday, August 15, 2023, at 09:00 am MST.

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

Thanks,



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

From:	Ashley Giovengo
To:	Enviro, OCD, EMNRD; Morgan, Crisha A
Cc:	Raley, Jim; Chad Hamilton; Cole Burton
Subject:	RE: 48-hour Confirmation Sampling Notification Email - RDX Federal 21 #041 & RDX Federal 21 #042 - Incident Numbers nAPP2305933356 & nAPP2320173651
Date:	Tuesday, August 15, 2023 1:15:54 PM
Attachments:	image001.png image002.png image003.png image004.png

Hello All,

Please extend the confirmation sampling notification to include sampling conducted on Wednesday and Thursday (08/16 thru 08/17) at the RDX Federal 21 #041 and RDX Federal 21 #042 (nAPP2305933356 & nAPP2320173651) Site.

Thanks,



From: Ashley Giovengo

Sent: Friday, August 11, 2023 7:59 AM

To: Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov>; Morgan, Crisha A <camorgan@blm.gov>
 Cc: Raley, Jim <jim.raley@dvn.com>; Chad Hamilton <chamilton@ensolum.com>; Cole Burton
 <cburton@ensolum.com>

Subject: 48-hour Confirmation Sampling Notification Email - RDX Federal 21 #041 & RDX Federal 21 #042 - Incident Numbers nAPP2305933356 & nAPP2320173651

Hello,

We intend to collect confirmation samples at Devon Energy's RDX Federal 21 #041 and RDX Federal 21 #042 site (nAPP2305933356 & nAPP2320173651) on Tuesday, August 15, 2023, at 09:00 am MST.

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

Thanks,



Ashley Giovengo Senior Engineer 575-988-0055 Ensolum, LLC

From:	Ashley Giovengo
To:	<u>Enviro, OCD, EMNRD; Morgan, Crisha A</u>
Cc:	Raley, Jim; Chad Hamilton; Cole Burton
Subject:	48-hour Confirmation Sampling Notification Email - RDX Federal 21 #041 & RDX Federal 21 #042 - Incident Numbers nAPP2305933356 & nAPP2320173651
Date:	Tuesday, September 5, 2023 3:39:23 PM
Attachments:	image001.png image002.png image003.png image004.png

Hello,

We intend to re-collect 2 confirmation samples at Devon Energy's RDX Federal 21 #041 and RDX Federal 21 #042 site (nAPP2305933356 & nAPP2320173651) on Wednesday, September 06, 2023, at 09:00 am MST.

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

Thanks,



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

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

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

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	269692
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	
Created By Condition	Condition

Oreated by	o on data on	Condition
		Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2320173651 RDX FEDERAL 21 #042, thank you. This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc, will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	2/14/2024

Action 269692

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