

October 31, 2024

New Mexico Oil Conservation Division 506 W. Texas Ave Artesia, NM 88210

RE: RDX Federal 28 #011 - Closure Request Report

Incident Number: nAPP2423424961 GPS: 32.01974°, -103.89262° Eddy County, New Mexico ESRR Project No. 2409

To Whom It May Concern:

Earth Systems Response & Restoration (ESRR), on behalf of WPX Energy Permian, LLC (WPX), presents the following Closure Request Report (CRR) detailing excavation activities and subsequent soil sampling events associated with an inadvertent release of crude oil and produced water at the RDX Federal 28 #011 (Site). Based on completed remedial actions and laboratory analytical results from recent soil sampling events, WPX is requesting No Further Action (NFA) at the Site.

### **Site Location & Incident Description**

The Site is located in Unit D, Section 28, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.01974°, -103.89262°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1**).

On August 18, 2024, a stuffing box failed, causing the release of approximately 1 barrel (bbl) of crude oil and 5 bbls of produced water onto a WPX production pad surface. A vacuum truck was immediately dispatched to the Site and recovered 2 bbls of fluids. ESRR conducted initial site assessment activities and mapped the observed release footprint on August 22, 2024, hereafter referred to as the Area of Concern (AOC) (Figure 2). WPX gave notice to the New Mexico Oil Conservation Division (NMOCD) on August 21, 2024, by Notification of Release (NOR) and Corrective Action Form C-141 (Form C-141) and was subsequently assigned Incident Number nAPP2423424961.

#### Site Characterization

ESRR characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). The following proximities were estimated:

- o Between 1 and 5 miles of any continuously flowing watercourse or any other significant watercourse;
- Greater than 5 miles of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- o Between 1 and 5 miles of any occupied permanent residence, school, hospital, institution or church;
- o Between 1 and 5 miles of any spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Between 1 and 5 miles of any other freshwater well or spring;
- o Greater than 5 miles of any incorporated municipal boundary or a defined municipal fresh water well field covered under a municipal ordinance;

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- Between 500 and 1,000 feet of any wetland;
- Greater than 5 miles of any subsurface mine;
- o Between 1 and 5 miles of any unstable area (i.e. high karst potential); and
- o Between 500 and 1,000 feet of a 100-year floodplain.

Receptor details used to determine the Site characterization are included in **Figure 1A** and **Figure 1B**. **Referenced Well Records** for the closest depth to water wells are attached.

Based on the results from the desktop review and depth to water estimated to be greater than 100 feet below ground surface (bgs), the following Closure Criteria was applied:

Constituents of Concern (COCs)	Closure Criteria <sup>‡</sup>
Chloride	20,000 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	2,500 mg/kg
Gasoline Range Organics (GRO) + Diesel Range Organics (ORO)	1,000 mg/kg
Benzene	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	50 mg/kg

<sup>&</sup>lt;sup>‡</sup>The reclamation concentration requirements of 600 mg/kg Chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

Laboratory Analytical Methods used: Environmental Protection Agency (EPA) 300.0, EPA 8015 NM, EPA 8021 B

#### **Delineation Activities**

On August 28, 2024, ESRR conducted delineation activities to assess the presence or absence of residual soil impacts associated with the AOC. Fourteen delineation boreholes (HA-1 through HA-14) were advanced via hand auger within and surrounding the AOC. Delineation activities were driven by field screening soil for chloride utilizing QuanTab® test strips. A minimum of two soil samples were collected from each delineation borehole, representing the highest observed field screening concentrations and the greatest depth. Delineation soil samples were placed directly into pre-cleaned jars, packed with minimal void space, labeled, and placed on ice. The delineation soil samples were transported under strict chain-of-custody procedures, to Envirotech in Farmington, New Mexico, for analysis of the COCs. Soil Sampling Logs and Photographic Documentation of all activities are attached.

Laboratory analytical results for soil samples collected surrounding the AOC (HA-9 through HA-14) were compliant with Site Closure Criteria and/ or the reclamation standard defining the horizontal periphery of the AOC.

Laboratory analytical results for samples collected within the AOC (HA-1 through HA-8) indicated either BTEX, TPH-GRO+TPH-DRO/TPH, and/or chloride were above the Site Closure Criteria and/or the reclamation standard up to 4 feet bgs. Elevated BTEX concentrations were characterized by concentrations ranging from 53.8 mg/kg to 64.1 mg/kg. Elevated chloride concentrations were characterized by concentrations ranging from 20,600 mg/kg to 23,100 mg/kg. Elevated TPH-GRO+TPH-DRO/TPH concentrations were characterized by concentrations ranging from 11,113 mg/kg to 55,520 mg/kg. Laboratory results are summarized in **Table 1**, included in the attachments. The locations of all delineation soil samples are shown in **Figure 2**.

#### **Remediation Activities**

From September 17 through September 19, 2024, ESRR oversaw excavation activities of identified impacts performed via mechanical equipment and hand digging based on laboratory analytical results associated

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with delineation soil sampling activities, and visual observation. The excavation was vertically advanced to a depth of approximately 1-foot bgs.

Following the removal of soil, ESRR collected 5-point composite soil samples at a sampling frequency of 200 square feet from the excavation floor (CS-1 through CS-11) and sidewalls (SW-1 through SW-4). The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon resealable plastic bag. The confirmation soil samples were handled, transported, and analyzed as previously described.

Laboratory analytical results indicated that concentrations of COCs for all final confirmation soil samples were below the applicable Site Closure Criteria and/or reclamation standard. Laboratory results are summarized in **Table 1**, included in the attachments. The locations of all final confirmation soil samples are shown in **Figure 3**.

Approximately 140 cubic yards (CY) of impacted soil was removed from the Site and transported to R360 Red Bluff in Orla, Texas under WPX approved manifests. Upon receipt of the final confirmation soil samples results, the excavation was backfilled with clean, locally sourced soil and the Site was restored to "as close to its original state" as possible. The final soil cover was contoured to match the Site's pre-existing grade to prevent ponding of water and erosion.

#### **Closure Request**

Based on laboratory analytical results, impacts associated with the inadvertent release have been delineated, excavated and removed from the Site in accordance with Site Closure Criteria. Due to the active status of the well pad, the top 4 feet of the AOC is not ready to undergo complete reclamation in which the primary purpose is to reestablish vegetation. With depth to groundwater estimated to be greater than 100 feet bgs and no sensitive receptors within the established buffers in NMAC 19.15.29.12, WPX believes residual chloride concentrations within the AOC exceeding the reclamation standard but below the Site Closure Criteria meets the requirements set forth in NMAC 19.15.29.13 regulations and is equally protective of human health, the environment, and groundwater.

WPX will reassess the Site during plugging and abandonment activities and address soil concentrations above the reclamation requirements of 100 mg/kg TPH and 600 mg/kg chloride (**Figure 4**). The final remediation will be confirmed via final confirmation sampling and is subject to change. As such, NFA appears warranted at this time, and WPX respectfully requests Closure of this CRR associated with Incident Number nAPP2423424961.

If you have any questions or comments, please do not hesitate to contact Gilbert Moreno at (832) 541-7719 or <a href="mailto:smaller:gmoreno@earthsys.net">gmoreno@earthsys.net</a>. Documentation and correspondence notifications and Executed chain-of-custody forms and laboratory analytical reports are attached.

Sincerely,

**EARTH SYSTEMS RESPONSE & RESTORATION** 

Gilbert Moreno

Carlsbad Operations Manager-Project Geologist

RDX Federal 28 #011 - Closure Request Report Incident Number: nAPP2423424961 GPS: 32.01974°, -103.89262°



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

#### Attachments:

Figure 1 - Site Map

Figure 1A - Ground Water

Figure 1B - Karst Potential

Figure 2 - Delineation Soil Sample Locations

Figure 3 - Excavation Soil Sample Locations

Figure 4 - Future Restoration Areas

Referenced Well Records

Soil Sampling Logs

**Photographic Documentation** 

Table 1 - Soil Sample Analytical Results

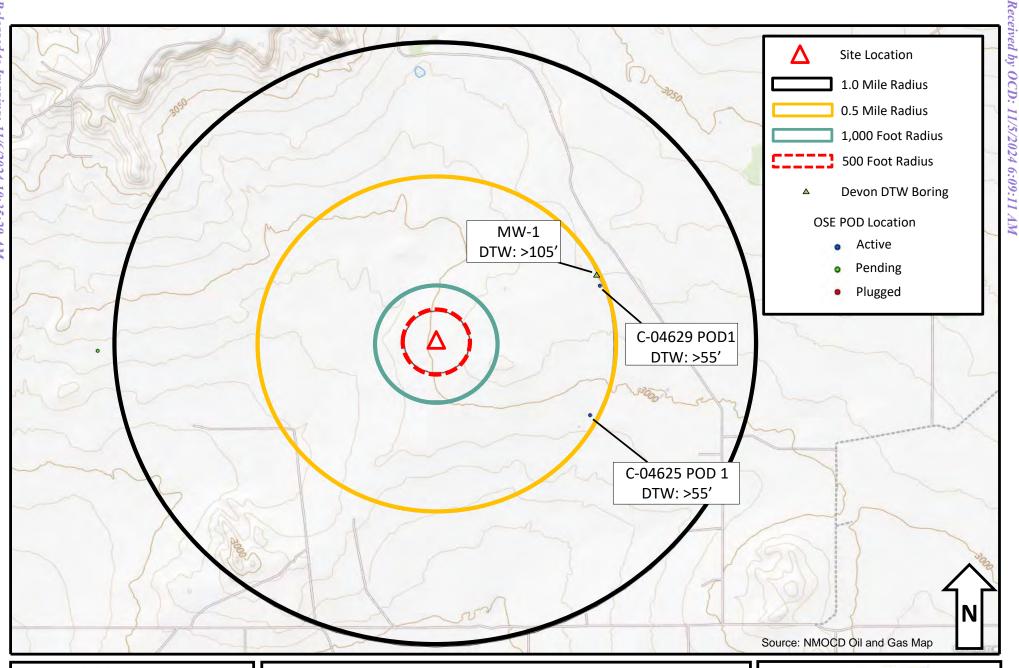
NMOCD Email Documentation & Correspondance

Executed Chain-of-Custody Forms and Laboratory Analytical Reports



# Figure 1 – Site Map

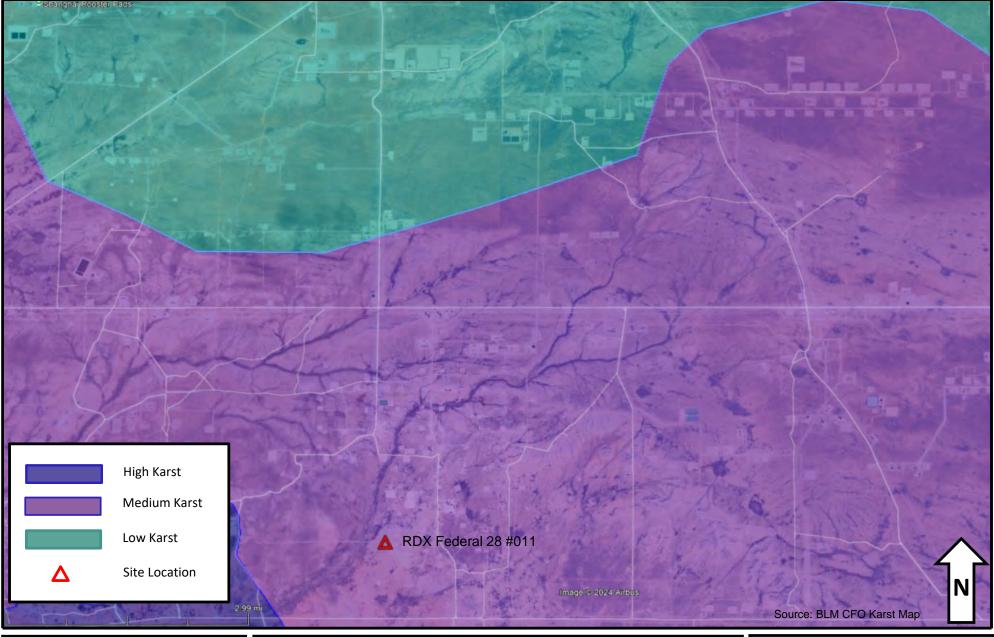






# Figure 1A - Ground Water

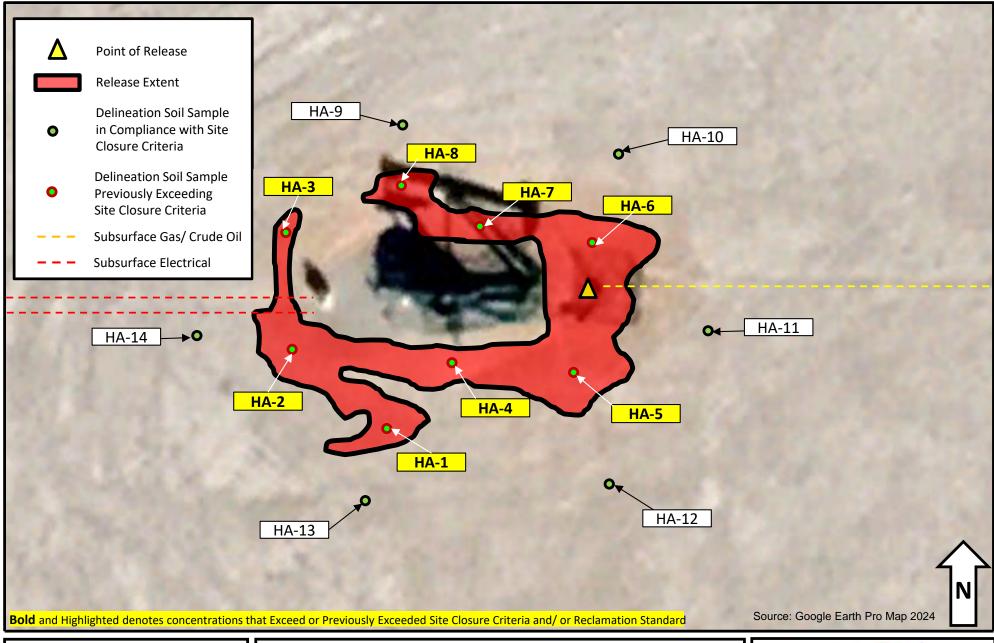






## Figure 1B - Karst Potential

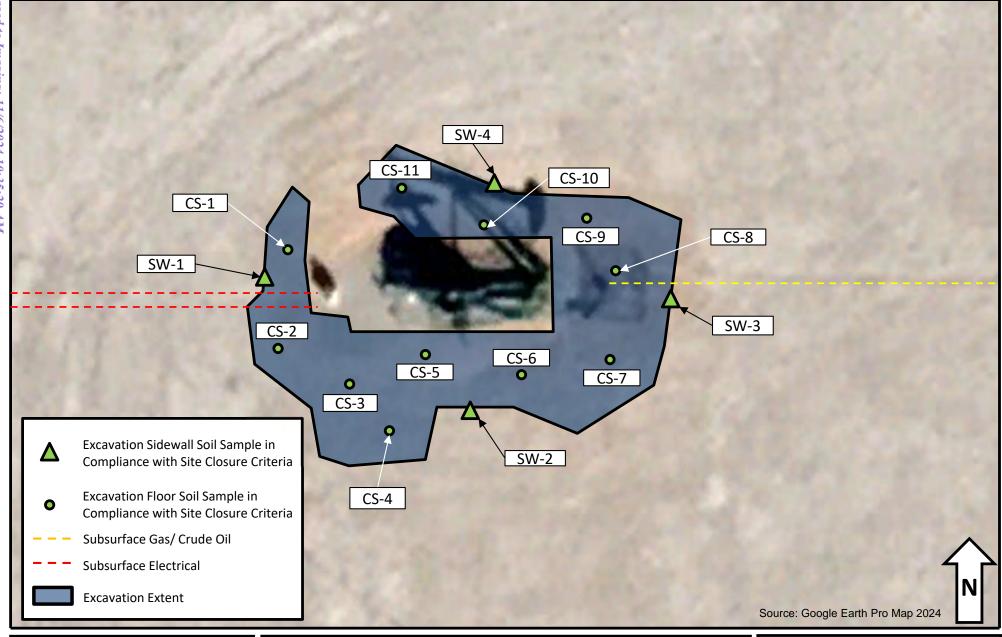






### Figure 2 – Delineation Soil Sample Locations

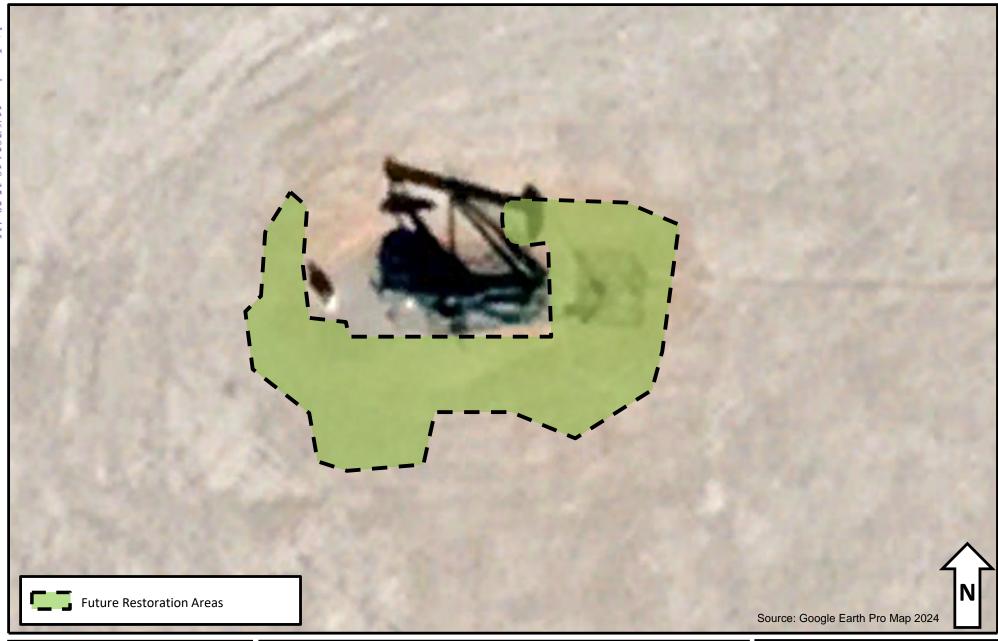






# Figure 3 – Excavation Soil Sample Locations





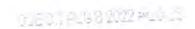


## Figure 4 – Future Restoration Areas



7		HR	L						MONITORING W	ELL COMPLETION	N DIAGRAM	
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50 55 60	NM	L	D	N	N	NM	SP	NS		orly graded fine sand silt and clay		
65 70 75	NM	L	D	N	N	NM	SP	NS		e red poorly graded		
80 85 90	NM	М	D	N	N	NM	SC	NS		olor fine sand with and and clay		
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2904 W 2nd St. Roswell, NM 88201 voice: 575.624.2420 fax: 575.624.2421 www.atkinseng.com

August 4, 2022

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

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4625 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4625 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

Sucar Middle

LUE DI 1908 8 2022 PML 19



DSE D.T. AUG 8 2022 MLU L8

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

August 4, 2022

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

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4629 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4629 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

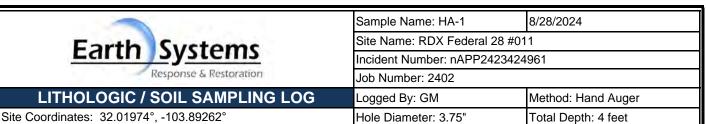
Sincerely,

Lucas Middleton

Enclosures: as noted above

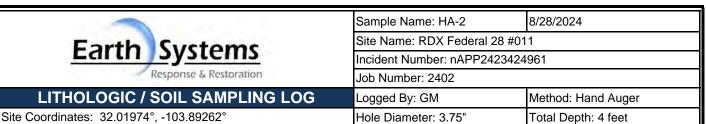
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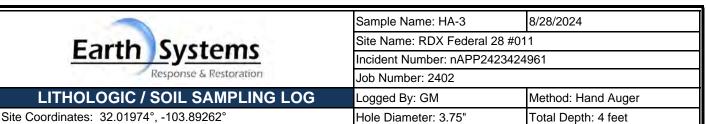
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
					_	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse
					_	_		grain, abundant sm-large gravel, brown stain, strong
Maiat	0.404		V	110.4	-	-		H-C odor.
Moist	8,424	-	Yes	HA-1	0.5	<b>-</b>		(1-2) SAND, dry, tan, well graded with silt, fine to coarse grain,
					-	_		some small gravel, no stain, no odor.
Dry	3,252	-	No		1 -		SW-SM	,
					_	Ĺ		(2-4) SAND, dry, tan to brown, poorly graded with silt, very fine
					_			to fine grain, no stain, no odor.
Dry	1,588	-	No		2	_ 2		
					_	_	SP-SM	
					_	_		
					-	<b>-</b>		
					_			
					_			
Dry	828	-	No	HA-1	4	4		

Dry 828 - No HA-1 4 Total Depth



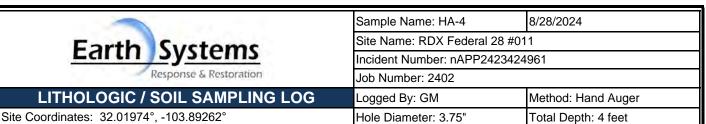
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
					_	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse
						L		grain, abundant sm-large gravel, brown stain, strong
			.,			<u> </u>		H-C odor.
Moist	9,120	-	Yes	HA-2	0.5	<u> </u>		(4.0) OAND day to a good and day the city that a good and the
					_	<u> </u>		(1-2) SAND, dry, tan, well graded with silt, fine to coarse grain,
Dry	3,840	_	No			-	SW-SM	trace small gravel, no stain, no odor.
Diy	3,040	_	INO		' -	_	300-3101	(2-4) SAND, dry, tan to brown, poorly graded with silt, very fine
					_			to fine grain, no stain, no odor.
Dry	4,164	-	No		2	2		, ,
							SP-SM	
					_	Ĺ		
					_			
						L		
					_	ļ.		
Dry	2,248	-	No	HA-2	4	4		

Dty 2.248 - No HA-2 4 4 Total Depth

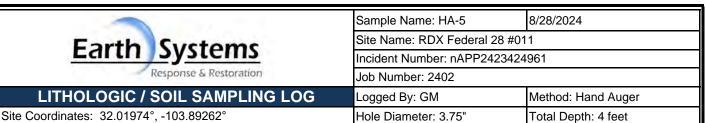


Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
					_	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse
					_	_		grain, abundant sm-large gravel, brown stain, strong
			.,			_		H-C odor.
Moist	896	-	Yes	HA-3	0.5	_		
					_	_		(1-2) SAND, dry, tan, well graded with silt, fine to coarse grain,
D	500		N.			_	CVV CVV	some small gravel, no stain, no odor.
Dry	532	-	No		' <u>-</u>	_	SW-SM	(2-4) SAND, dry, tan to brown, poorly graded with silt, very fine
					_	_		to fine grain, no stain, no odor.
Dry	1,292	_	No		2 -	2		to line grain, no stain, no odor.
D.y	1,202		110				SP-SM	@4', increased silt.
					_	-	0	3 1, moreassa sim
					_	_		
					-	_		
					_	_		
Dry	532	-	No	HA-3	4	4	T	

Dry 532 - No HA-3 4 4 Total Depth

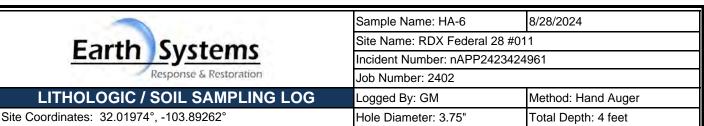


Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse
					_	L		grain, abundant sm-large gravel, brown stain, strong
								H-C odor.
Moist	11,680	-	Yes	HA-4	0.5	L		
					_			(1-2) SAND, dry, tan, well graded with silt, fine to coarse grain,
					_			some small gravel, no stain, no odor.
Dry	8,424	-	No		1 _	_	SW-SM	
					_	_		(2-4) SAND, dry, tan to brown, poorly graded with silt, very fine
					_	_		to fine grain, trace organics, no stain, no odor.
Dry	436	-	No	HA-4	2 _	_ 2		
					_	_	SP-SM	@4', color change to tan, no organics.
					_	_		
					_	L		
					_	_		
					_	L		
D	250		NI-	110.4		_ ,		
Dry	352	-	No	HA-4	4	4	Tatal	



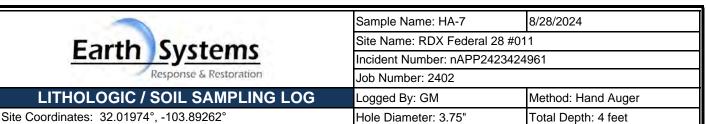
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
					-	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse
					_	_		grain, abundant sm-large gravel, brown stain, strong
Moist	9,884	_	Yes	HA-5	0.5	-		H-C odor.
Wiolat	0,004		100	11/10	0.0	_		(1-2) SAND, dry, tan, well graded with silt, fine to coarse grain,
					-	<del> -</del>		trace small gravel, no stain, no odor.
Dry	9,120	-	No		1 _		SW-SM	
					_	_		(2-4) SAND, dry, tan to brown, poorly graded with silt, very fine
Dn/	9,120		No		2	2		to fine grain, no stain, no odor.
Dry	9,120	-	NO		_		SP-SM	
					_	-	0. 0	
					_			
					_	-		
Dry	896	-	No	HA-5	4	4		

Dry 896 - No HA-5 4 4 Total Depth



Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
					_	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse
					_	_		grain, abundant sm-large gravel, brown stain, strong
Moist	>2,420	_	Yes	HA-6	0.5	-		H-C odor.
Wioist	72,720		103	11/4-0	0.5	_		(1-4) SAND, dry, tan to brown, poorly graded with silt, very fine
					_	-		to fine grain, trace small gravel, no stain, no odor.
Dry	>2,420	-	No		1 _	<del>-</del>	SP-SM	
					_	_		
Dry	>2,420		No		2	2		
Diy	>2,420	-	INO		_			
					_	_		
					_	<del>-</del> -		
					_	_		
					_	=		
Dry	>2,420	-	No	HA-6	4	4		

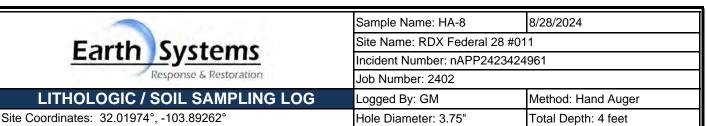
Dty >2,420 - No HA-6 4 4 Total Depth



Comments: Field screening conducted with HACH Chloride Test Strips for chloride, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

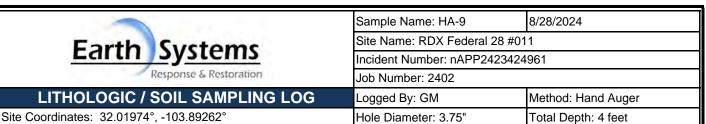
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
					_	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse
					_	_		grain, abundant sm-large gravel, brown stain, strong
					_	_		H-C odor.
Moist	>2,420	-	Yes	HA-7	0.5	_		
					_	_		(1-2) SAND, dry, tan, well graded with silt, fine to coarse grain,
D	500		NI.		, -	_	0)4/ 014	trace small gravel, no stain, no odor.
Dry	532	-	No		1 -	_	SW-SM	
					_	_		(2-4) SAND, dry, brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	216	_	No	HA-7	2 -	2		to line grain, no stain, no odor.
							SP-SM	
					-	_		
					_	_		
					_	_		
					_	L		
Dry	120	-	No	HA-7	4	4		

Dry 120 - No HA-7 4 Total Depth



Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
					_	0	CCHE	(0-1) CALICHE, moist, tan, well graded with silt, fine to coarse
					_			grain, abundant sm-large gravel, brown stain, strong
						_		H-C odor.
Moist	2,420	-	Yes	HA-8	0.5	_		(4.0) 0.0 (2.1)
					_	<u> </u>		(1-2) SAND, dry, tan, well graded with silt, fine to coarse grain,
Dry	1,204	_	No			_	SW-SM	trace small gravel, no stain, no odor.
Diy	1,204	_	INO		'-	_	300-3101	(2-4) SAND, dry, brown, poorly graded with silt, very fine
					_	_		to fine grain, no stain, faint H-C odor.
Dry	396	-	No	HA-8	2	2		
							SP-SM	@4' no odor.
					_	L		
					_	<u> </u>		
					_	<u></u>		
					_	<u> </u>		
Dry	188	-	No	HA-8	4	4		

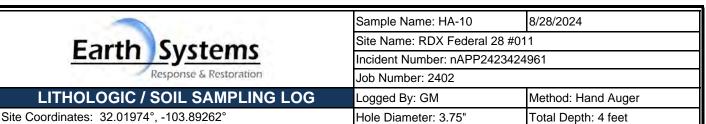
Dry 188 - No HA-8 4 4 Total Depth



Comments: Field screening conducted with HACH Chloride Test Strips for chloride, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
					_	0	CCHE	(0-1) CALICHE, dry, tan, well graded with silt, fine to coarse
					-	L		grain, abundant sm-large gravel, no stain, no odor.
Dry	<120	-	No	HA-9	0.5	_		
						_		(1-2) SAND, dry, tan, well graded with silt, fine to coarse grain,
D	400		NI.			_	014/ 014	some small gravel, no stain, no odor.
Dry	<120	-	No		1 -	-	SW-SM	(2-4) SAND, dry, tan to brown, poorly graded with silt, very fine
						_		to fine grain, no stain, no odor.
Dry	<120	-	No		2	_ 2		
					-	-	SP-SM	
					_	_		
						_		
					_	-		
Dry	<120	-	No	HA-9	4	_ 4		

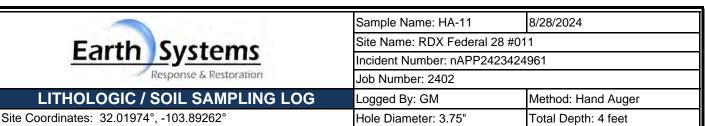
Total Depth



Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
					_	0	CCHE	(0-1) CALICHE, dry, tan, well graded with silt, fine to coarse
					_	_		grain, abundant sm-large gravel, no stain, no odor.
Dry	<120	-	No	HA-10	0.5	<u> </u>		
					_	Ľ		(1-2) SAND, dry, tan, well graded with silt, fine to coarse grain,
					_	_		some small gravel, no stain, no odor.
Dry	<120	-	No		_ 1	-	SW-SM	(2-4) SAND, dry, tan to brown, poorly graded with silt, very fine
					_			to fine grain, no stain, no odor.
Dry	<120	-	No		2	2		
					_		SP-SM	
					_	<u> </u>		
					-	<u> </u>		
					_	Γ		
Dry	<120	_	No	HA-10	4 -	4		

Dty <120 - No HA-10 4 4 4

Total Depth

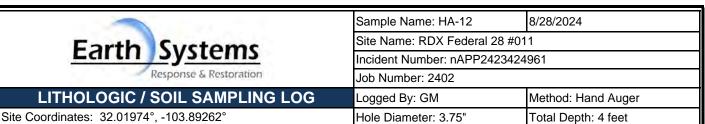


Comments: Field screening conducted with HACH Chloride Test Strips for chloride, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

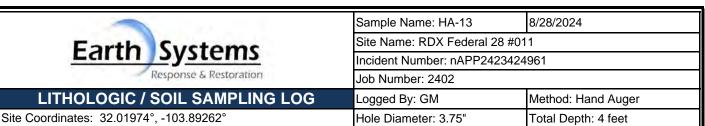
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	CCHE	(0-1) CALICHE, dry, tan, well graded with silt, fine to coarse
					_	_		grain, abundant sm-large gravel, no stain, no odor.
Dry	<120	-	No	HA-11	0.5	_		
					_	-		(1-2) SAND, dry, tan, well graded with silt, fine to coarse grain, some small gravel, no stain, no odor.
Dry	<120	-	No		1 -	<u>L</u>	SW-SM	
					_	<u> </u>		(2-4) SAND, dry, tan to brown, poorly graded with silt, very fine
Dry	<120	-	No		2	2		to fine grain, no stain, no odor.
						_	SP-SM	
					_	_		
					_	_		
					_	-		
Dry	<120	-	No	HA-11	4	4		

Dry <120 - No HA-11 4 Total Depth

Total Depth

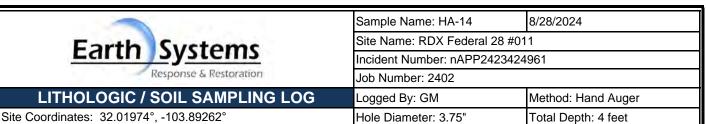


Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
					-	0	CCHE	(0-1) CALICHE, dry, tan, well graded with silt, fine to coarse
					_	_		grain, abundant sm-large gravel, no stain, no odor.
Dry	<120	-	No	HA-12	0.5	_		
								(1-2) SAND, dry, tan, well graded with silt, fine to coarse grain,
Dry	<120		No			L	SW-SM	some small gravel, no stain, no odor.
Diy	<120	-	INO		'-	-	344-3141	(2-4) SAND, dry, tan to brown, poorly graded with silt, very fine
					_			to fine grain, no stain, no odor.
Dry	<120	-	No		2 _	2	SP-SM	
					_	-	3P-3IVI	
					_			
					_	L		
					_	<del> </del>		
Dry	<120	-	No	HA-12	4	4		



Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
					_	0	CCHE	(0-1) CALICHE, dry, tan, well graded with silt, fine to coarse
					_	L		grain, abundant sm-large gravel, no stain, no odor.
Dry	<120	-	No	HA-13	0.5	<u> </u>		
					_ _			(1-2) SAND, dry, tan, well graded with silt, fine to coarse grain,
						<u> </u>	011/01/	some small gravel, no stain, no odor.
Dry	<120	=	No		1 -	-	SW-SM	(2-4) SAND, dry, tan to brown, poorly graded with silt, very fine
					_	_		to fine grain, no stain, no odor.
Dry	<120	-	No		2	2		
					_	  -	SP-SM	
					_	-		
					_	<b>L</b> _		
					_	_		
Dry	<120	-	No	HA-13	4	4		

Total Depth



Comments: Field screening conducted with HACH Chloride Test Strips for chloride, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	CCHE	(0-1) CALICHE, dry, tan, well graded with silt, fine to coarse
					_	_		grain, abundant sm-large gravel, no stain, no odor.
Dry	<120	-	No	HA-14	0.5	_		
					_	<u> </u>		(1-2) SAND, dry, tan, well graded with silt, fine to coarse grain, some small gravel, no stain, no odor.
Dry	<120	-	No		1 _	_	SW-SM	-
					_	_		(2-4) SAND, dry, tan to brown, poorly graded with silt, very fine to fine grain, no stain, no odor.
Dry	<120	-	No		2	2		to fine grain, no stain, no odor.
					_	F	SP-SM	
					_	_		
					_	<u>-</u>		
					-	<u> </u>		
Dry	<120	-	No	HA-14	4	4		

Dry <120 - No HA-14 4 4 Total Depth





PHOTO 1: Southwestern view during initial site assessment. 08/22/2024



PHOTO 2: Northeastern view during initial site assessment. 08/22/2024



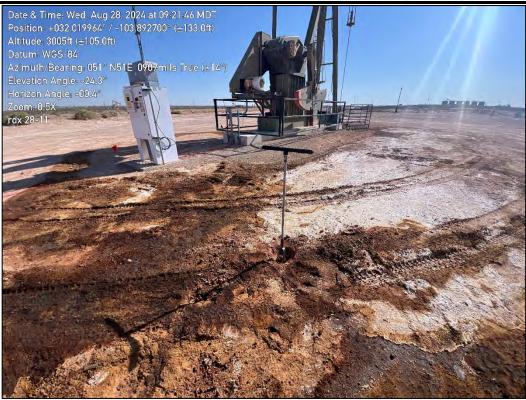


PHOTO 3: Northeastern view during delineation activities. 08/28/2024



PHOTO 4: Northeastern view during delineation activities. 08/28/2024





PHOTO 5: Southeastern view during delineation activities. 08/28/2024



PHOTO 6: View of the impacted area after the initial release response facing southwest. 07/24/2024





PHOTO 7: Southeastern view of excavation extent. 09/19/2024



PHOTO 8: Southwestern view of excavation extent. 09/19/2024





PHOTO 9: Northeastern view following restoration activities. 10/04/2024



PHOTO 10: Southwestern view following restoration activities. 10/04/2024

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# Table 1 SOIL SAMPLE ANALYTICAL RESULTS RDX Federal 28 #011 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)	DRO + GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
IOCD Table I Closui lease (NMAC 19.15.		s Impacted by a	10	50	NE	NE	NE	1,000	2,500	20,000
				Deline	eation Soil Samples - r	APP2423424961				
HA-1	08/28/24	0.5	<0.0250	15.70	213	10,900	4,130	11,113	15,243	13,100
HA-1	08/28/24	4	<0.0250	<0.0250	25.3	<25.0	<50.0	25.3	25.3	1,040
HA-2	08/28/24	0.5	< 0.0250	<0.0250	<20.0	890	328	890	1,218	15,000
HA-2	08/28/24	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	3,110
HA-3	08/28/24	0.5	<0.0250	30.34	335	25,800	10,400	26,135	36,535	2,010
HA-3	08/28/24	4	<0.0250	0.0365	<20.0	219	149	219	368	871
HA-4	08/28/24	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	17,100
HA-4	08/28/24	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	529
HA-4	08/28/24	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	339
HA-5	08/28/24	0.5	<0.0250	<0.0250	<20.0	202	76.6	202	279	20,600
HA-5	08/28/24	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	1,360
HA-6	08/28/24	0.5	<0.0250	<0.0250	<20.0	136	71.9	136	208	23,100
HA-6	08/28/24	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	4,320
HA-7	08/28/24	0.5	0.0605	53.8	447	34,800	13,200	35,247	48,447	4,780
HA-7	08/28/24	2	<0.0250	<0.0250	<20.0	43.3	<50.0	43.3	43.3	216
HA-7	08/28/24	4	<0.0250	<0.0250	<20.0	249	97.3	249	346	131
HA-8	08/28/24	0.5	<0.0250	64.1	1,120	39,300	15,100	39,747	55,520	4,900
HA-8	08/28/24	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	518
HA-8	08/28/24	4	<0.0250	<0.0250	<20.0	36.0	<50.0	36.0	36.0	217
HA-9	08/28/24	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
HA-9	08/28/24	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
HA-10	08/28/24	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
HA-10	08/28/24	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
HA-11	08/28/24	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
HA-11	08/28/24	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
HA-12	08/28/24	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
HA-12	08/28/24	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
HA-13	08/28/24	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
HA-13	08/28/24	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
HA-14	08/28/24	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
HA-14	08/08/24	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0

Received by OCD: 11/5/2024 6:09:11 AM



# Table 1 SOIL SAMPLE ANALYTICAL RESULTS RDX Federal 28 #011 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)	DRO + GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closuro Release (NMAC 19.15.2		Impacted by a	10	50	NE	NE	NE	1,000	2,500	20,000
	Confirmation Soil Samples - nAPP2423424961									
CS-1	09/19/24	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	1,180
CS-2	09/19/24	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	3,900
CS-3	09/19/24	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	6,860
CS-4	09/19/24	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	1,340
CS-5	09/19/24	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	2,690
CS-6	09/19/24	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	6,940
CS-7	09/19/24	1	<0.0250	<0.0250	<20.0	62.7	<50.0	62.7	62.7	6,530
CS-8	09/19/24	1	<0.0250	<0.0250	<20.0	57.7	<50.0	57.7	57.7	6,430
CS-9	09/19/24	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	3,600
CS-10	09/19/24	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	317
CS-11	09/19/24	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	754
SW-1	09/19/24	0-1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
SW-2	09/19/24	0-1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
SW-3	09/19/24	0-1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
SW-4	09/19/24	0-1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes GRO: Gasoline Range Organics

DRO: Diesel Range Organics
ORO: Oil Range Organics

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Text in ""grey"" represents excavated soil samples

Concentrations in **bold and highlighted** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard<sup>†</sup> for Soils Impacted by a Release <sup>†</sup>The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

## nAPP2423424961 - Soil Sampling Activities

## Gilbert Moreno <gmoreno@earthsys.net>

Mon 9/16/2024 6:53 PM

To:ocd.enviro@emnrd.nm.gov <ocd.enviro@emnrd.nm.gov> Cc:Raley, Jim <Jim.Raley@dvn.com>

Hello,

Earth Systems R & R anticipates conducting soil sampling activities at the RDX Federal 28 #011 on September 19<sup>th</sup> and 20<sup>th</sup>, 2024. This email will be followed up with a Notification of Sampling (C-141N) for the proposed dates.

Proposed Time:	08:00-17:00 MST
Site Name:	RDX Federal 28 #011
Incident Number:	nAPP2423424961
Sampling Surface Area:	2,143 sq. ft.
Samples to be collected:	20
Sampling Date:	9/19/2024 & 9/20/2024
Who to Contact:	Gilbert Moreno P: 832-541-7719
Site GPS:	32.0197411°, -103.8926239°
Navigation to Site:	From the intersection of HWY 285 & Longhorn Rd/Whitehorn Rd-Head East on Longhorn Rd/Whitehorn Rd 2.5 mislight left to stay on Longhorn Rd 2.8 miTurn left onto Pipeline Rd-continue E 2.8 miTurn right onto Tarbrush Rd-continue 0.3 mi-Turn left and continue E 0.5 mi-Turn right and continue SE 0.6 miTurn left and continue E 0.7 mi-Keep left and continue E 2.1 mi-Turn right and continue S 0.68 mi Turn right and continue W 0.54 mi Turn left and continue S 0.36 mi Turn right and continue 0.19 mi to location.

**Gilbert Moreno** | Carlsbad Operations Manager- Project Geologist 1910 Resource Ct | Carlsbad NM, 88220 O. 575.323.9034 M. (832) 541-7719 | gmoreno@earthsys.net

Report to:
Gilbert Moreno



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Earth Systems

Project Name: RDX 28-11

Work Order: E408270

Job Number: 01058-0007

Received: 8/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/6/24

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

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

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

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

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

Date Reported: 9/6/24

Gilbert Moreno 1910 Resource Ct Carlsbad, NM 88220

Project Name: RDX 28-11 Workorder: E408270

Date Received: 8/30/2024 5:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/30/2024 5:00:00AM, under the Project Name: RDX 28-11.

The analytical test results summarized in this report with the Project Name: RDX 28-11 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

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

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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Lynn Jarboe

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

0111**66**: 505 121 E11B5(52

Cell: 505-947-8222

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Envirotech Web Address: www.envirotech-inc.com

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## Sample Summary

Earth Systems	Project Name:	RDX 28-11	Reported:
1910 Resource Ct	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/06/24 13:16

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
HA-1 -0.5'	E408270-01A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-1 -4'	E408270-02A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-2-0.5'	E408270-03A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-2-4'	E408270-04A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-3-0.5'	E408270-05A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-3-4'	E408270-06A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-4-0.5'	E408270-07A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-4-2'	E408270-08A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-4-4'	E408270-09A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-5-0.5'	E408270-10A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-5-4'	E408270-11A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-6-0.5'	E408270-12A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-6-4'	E408270-13A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-7-0.5'	E408270-14A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-8-0.5'	E408270-15A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.

 Earth Systems
 Project Name:
 RDX 28-11

 1910 Resource Ct
 Project Number:
 01058-0007
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Gilbert Moreno
 9/6/2024 1:16:03PM

## HA-1 -0.5' E408270-01

		2100270 01					
Analyte	Result	Reporting Limit	Dilu	ntion	Prepared	Analyzed	Notes
				Analyst:	•	7 Hary Zea	Batch: 2435120
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	-	Anaryst.		00/02/24	Batch: 2433120
Benzene	ND	0.0250	1		08/30/24	09/03/24	
Ethylbenzene	1.19	0.0250			08/30/24	09/03/24	
Toluene	0.248	0.0250	1	l	08/30/24	09/03/24	
o-Xylene	2.70	0.0250	1	l	08/30/24	09/03/24	
p,m-Xylene	4.43	0.0500	1	1	08/30/24	09/03/24	
Total Xylenes	7.13	0.0250	1	1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130		08/30/24	09/03/24	
Surrogate: Toluene-d8		107 %	70-130		08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	BA		Batch: 2435120
Gasoline Range Organics (C6-C10)	213	20.0	1	l	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130		08/30/24	09/03/24	
Surrogate: Toluene-d8		107 %	70-130		08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2435121
Diesel Range Organics (C10-C28)	10900	125	5	5	08/30/24	09/04/24	
Oil Range Organics (C28-C36)	4130	250	5	5	08/30/24	09/04/24	
Surrogate: n-Nonane		166 %	50-200		08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2435126
Chloride	13100	400	2	0	08/30/24	08/31/24	



Earth SystemsProject Name:RDX 28-111910 Resource CtProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 1:16:03PM

## HA-1 -4' E408270-02

		E400270-02				
Andre	D14	Reporting Limit	Diluti	D	Auchord	Notes
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: BA		Batch: 2435120
Benzene	ND	0.0250	1	08/30/24	09/03/24	
Ethylbenzene	ND	0.0250	1	08/30/24	09/03/24	
Toluene	ND	0.0250	1	08/30/24	09/03/24	
o-Xylene	ND	0.0250	1	08/30/24	09/03/24	
p,m-Xylene	ND	0.0500	1	08/30/24	09/03/24	
Total Xylenes	ND	0.0250	1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	08/30/24	09/03/24	
Surrogate: Toluene-d8		105 %	70-130	08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: BA		Batch: 2435120
Gasoline Range Organics (C6-C10)	25.3	20.0	1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	08/30/24	09/03/24	
Surrogate: Toluene-d8		105 %	70-130	08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2435121
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/04/24	
Surrogate: n-Nonane		73.6 %	50-200	08/30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2435126
Chloride	1040	20.0		08/30/24	08/31/24	



 Earth Systems
 Project Name:
 RDX 28-11

 1910 Resource Ct
 Project Number:
 01058-0007
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Gilbert Moreno
 9/6/2024
 1:16:03PM

## HA-2-0.5' E408270-03

		E400270-03					
		Reporting					
Analyte	Result	Limit	Dilut	ion Pre	pared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Α	Analyst: BA			Batch: 2435120
Benzene	ND	0.0250	1	08/	30/24	09/03/24	
Ethylbenzene	ND	0.0250	1	08/	30/24	09/03/24	
Toluene	ND	0.0250	1	08/	30/24	09/03/24	
o-Xylene	ND	0.0250	1	08/	30/24	09/03/24	
p,m-Xylene	ND	0.0500	1	08/	30/24	09/03/24	
Total Xylenes	ND	0.0250	1	08/	30/24	09/03/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/	30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130	08/	30/24	09/03/24	
Surrogate: Toluene-d8		106 %	70-130	08/.	30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: BA			Batch: 2435120
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/	30/24	09/03/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/	30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130	08/	30/24	09/03/24	
Surrogate: Toluene-d8		106 %	70-130	08/.	30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV			Batch: 2435121
Diesel Range Organics (C10-C28)	890	125	5	08/	30/24	09/04/24	
Oil Range Organics (C28-C36)	328	250	5	08/	30/24	09/04/24	
Surrogate: n-Nonane		77.3 %	50-200	08/.	30/24	09/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT			Batch: 2435126
Chloride	15000	400	20	08/	30/24	08/31/24	



 Earth Systems
 Project Name:
 RDX 28-11

 1910 Resource Ct
 Project Number:
 01058-0007
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Gilbert Moreno
 9/6/2024 1:16:03PM

## HA-2-4' E408270-04

		2100270 01				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: BA		Batch: 2435120
Benzene	ND	0.0250	1	08/30/24	09/03/24	
Ethylbenzene	ND	0.0250	1	08/30/24	09/03/24	
Toluene	ND	0.0250	1	08/30/24	09/03/24	
o-Xylene	ND	0.0250	1	08/30/24	09/03/24	
p,m-Xylene	ND	0.0500	1	08/30/24	09/03/24	
Total Xylenes	ND	0.0250	1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	08/30/24	09/03/24	
Surrogate: Toluene-d8		107 %	70-130	08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	analyst: BA		Batch: 2435120
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	08/30/24	09/03/24	
Surrogate: Toluene-d8		107 %	70-130	08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2435121
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/05/24	
Surrogate: n-Nonane		78.1 %	50-200	08/30/24	09/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: DT		Batch: 2435126
Chloride	3110	40.0	2	08/30/24	08/31/24	

Earth SystemsProject Name:RDX 28-111910 Resource CtProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 1:16:03PM

## HA-3-0.5' E408270-05

		E400270-03				
		Reporting				
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: BA		Batch: 2435120
Benzene	ND	0.0250	1	08/30/24	09/04/24	
Ethylbenzene	2.59	0.0250	1	08/30/24	09/04/24	
Toluene	0.699	0.0250	1	08/30/24	09/04/24	
o-Xylene	5.09	0.0250	1	08/30/24	09/04/24	
p,m-Xylene	8.46	0.0500	1	08/30/24	09/04/24	
Total Xylenes	13.5	0.0250	1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	08/30/24	09/04/24	
Surrogate: Toluene-d8		110 %	70-130	08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: BA		Batch: 2435120
Gasoline Range Organics (C6-C10)	335	20.0	1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	08/30/24	09/04/24	
Surrogate: Toluene-d8		110 %	70-130	08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2435121
Diesel Range Organics (C10-C28)	25800	250	10	08/30/24	09/05/24	
Oil Range Organics (C28-C36)	10400	500	10	08/30/24	09/05/24	
Surrogate: n-Nonane		300 %	50-200	08/30/24	09/05/24	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: DT		Batch: 2435126
Chloride	2010	200	10	08/30/24	08/31/24	



 Earth Systems
 Project Name:
 RDX 28-11

 1910 Resource Ct
 Project Number:
 01058-0007
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Gilbert Moreno
 9/6/2024
 1:16:03PM

## HA-3-4' E408270-06

Result			ıtion	Prepared	Analyzed	Notes
Kesuit	Limit	Dilu	ition	Trepared	Allaryzeu	Notes
mg/kg	mg/kg		Analyst:	BA		Batch: 2435120
ND	0.0250	1	1	08/30/24	09/05/24	
ND	0.0250	1	1	08/30/24	09/05/24	
0.0365	0.0250	1	1	08/30/24	09/05/24	
ND	0.0250	1	1	08/30/24	09/05/24	
ND	0.0500	1	1	08/30/24	09/05/24	
ND	0.0250	1	1	08/30/24	09/05/24	
	99.2 %	70-130		08/30/24	09/05/24	
	98.0 %	70-130		08/30/24	09/05/24	
	105 %	70-130		08/30/24	09/05/24	
mg/kg	mg/kg		Analyst:	BA		Batch: 2435120
ND	20.0	1	1	08/30/24	09/05/24	
	99.2 %	70-130		08/30/24	09/05/24	
	98.0 %	70-130		08/30/24	09/05/24	
	105 %	70-130		08/30/24	09/05/24	
mg/kg	mg/kg		Analyst:	NV		Batch: 2435121
219	25.0	1	1	08/30/24	09/05/24	
149	50.0	1	1	08/30/24	09/05/24	
	81.0 %	50-200		08/30/24	09/05/24	
mg/kg	mg/kg		Analyst:	DT		Batch: 2435126
871	20.0	1	1	08/30/24	08/31/24	
	ND ND 0.0365 ND ND ND ND ND Mg/kg ND mg/kg 219 149	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           0.0365         0.0250           ND         0.0500           ND         0.0250           99.2 %         98.0 %           105 %         mg/kg           ND         20.0           99.2 %         98.0 %           105 %         mg/kg           mg/kg         mg/kg           219         25.0           149         50.0           81.0 %         mg/kg           mg/kg         mg/kg	mg/kg         mg/kg           ND         0.0250           ND         0.0250           0.0365         0.0250           ND         0.0500           ND         0.0250           99.2 %         70-130           98.0 %         70-130           105 %         70-130           mg/kg         mg/kg           ND         20.0           99.2 %         70-130           98.0 %         70-130           105 %         70-130           mg/kg         mg/kg           149         50.0           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Analyst:           ND         0.0250         1           ND         0.0250         1           0.0365         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           99.2 %         70-130           98.0 %         70-130           mg/kg         mg/kg         Analyst:           ND         20.0         1           99.2 %         70-130         1           99.2 %         70-130         1           mg/kg         mg/kg         Analyst:           105 %         70-130         1           mg/kg         mg/kg         Analyst:           219         25.0         1           81.0 %         50-200           mg/kg         Analyst:	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         08/30/24           ND         0.0250         1         08/30/24           0.0365         0.0250         1         08/30/24           ND         0.0500         1         08/30/24           ND         0.0250         1         08/30/24           ND         0.0250         1         08/30/24           ND         0.0250         1         08/30/24           99.2 %         70-130         08/30/24           98.0 %         70-130         08/30/24           105 %         70-130         08/30/24           99.2 %         70-130         08/30/24           99.2 %         70-130         08/30/24           98.0 %         70-130         08/30/24           105 %         70-130         08/30/24           105 %         70-130         08/30/24           105 %         70-130         08/30/24           105 %         70-130         08/30/24           149         50.0         1         08/30/24           149 <t< td=""><td>Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         08/30/24         09/05/24           ND         0.0250         1         08/30/24         09/05/24           0.0365         0.0250         1         08/30/24         09/05/24           ND         0.0250         1         08/30/24         09/05/24           ND         0.0500         1         08/30/24         09/05/24           ND         0.0250         1         08/30/24         09/05/24           ND         0.0250         1         08/30/24         09/05/24           99.2 %         70-130         08/30/24         09/05/24           98.0 %         70-130         08/30/24         09/05/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         08/30/24         09/05/24           99.2 %         70-130         08/30/24         09/05/24           98.0 %         70-130         08/30/24         09/05/24           105 %         70-130         08/30/24         09/05/24           mg/kg</td></t<>	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         08/30/24         09/05/24           ND         0.0250         1         08/30/24         09/05/24           0.0365         0.0250         1         08/30/24         09/05/24           ND         0.0250         1         08/30/24         09/05/24           ND         0.0500         1         08/30/24         09/05/24           ND         0.0250         1         08/30/24         09/05/24           ND         0.0250         1         08/30/24         09/05/24           99.2 %         70-130         08/30/24         09/05/24           98.0 %         70-130         08/30/24         09/05/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         08/30/24         09/05/24           99.2 %         70-130         08/30/24         09/05/24           98.0 %         70-130         08/30/24         09/05/24           105 %         70-130         08/30/24         09/05/24           mg/kg



 Earth Systems
 Project Name:
 RDX 28-11

 1910 Resource Ct
 Project Number:
 01058-0007
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Gilbert Moreno
 9/6/2024
 1:16:03PM

## HA-4-0.5' E408270-07

		E1002/0 0/				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: BA		Batch: 2435120
Benzene	ND	0.0250	1	08/30/24	09/04/24	
Ethylbenzene	ND	0.0250	1	08/30/24	09/04/24	
Toluene	ND	0.0250	1	08/30/24	09/04/24	
o-Xylene	ND	0.0250	1	08/30/24	09/04/24	
p,m-Xylene	ND	0.0500	1	08/30/24	09/04/24	
Total Xylenes	ND	0.0250	1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	08/30/24	09/04/24	
Surrogate: Toluene-d8		106 %	70-130	08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: BA		Batch: 2435120
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	08/30/24	09/04/24	
Surrogate: Toluene-d8		106 %	70-130	08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2435121
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/05/24	
Surrogate: n-Nonane		79.5 %	50-200	08/30/24	09/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: DT		Batch: 2435126
Chloride	17100	1000	50	08/30/24	08/31/24	

Earth SystemsProject Name:RDX 28-111910 Resource CtProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 1:16:03PM

## HA-4-2' E408270-08

D 1	Reporting	D.11				N.
Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
mg/kg	mg/kg		Analyst:	BA		Batch: 2435120
ND	0.0250		1	08/30/24	09/04/24	
ND	0.0250		1	08/30/24	09/04/24	
ND	0.0250		1	08/30/24	09/04/24	
ND	0.0250		1	08/30/24	09/04/24	
ND	0.0500		1	08/30/24	09/04/24	
ND	0.0250		1	08/30/24	09/04/24	
	102 %	70-130		08/30/24	09/04/24	
	101 %	70-130		08/30/24	09/04/24	
	106 %	70-130		08/30/24	09/04/24	
mg/kg	mg/kg		Analyst:	BA		Batch: 2435120
ND	20.0		1	08/30/24	09/04/24	
	102 %	70-130		08/30/24	09/04/24	
	101 %	70-130		08/30/24	09/04/24	
	106 %	70-130		08/30/24	09/04/24	
mg/kg	mg/kg		Analyst:	NV		Batch: 2435121
ND	25.0		1	08/30/24	09/05/24	
ND	50.0		1	08/30/24	09/05/24	
	82.1 %	50-200		08/30/24	09/05/24	
mg/kg	mg/kg		Analyst:	DT		Batch: 2435126
529	20.0		1	08/30/24	08/31/24	
	ND Mg/kg ND Mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           IO2 %         101 %           106 %         106 %           mg/kg         mg/kg           ND         20.0           IO2 %         101 %           106 %         106 %           mg/kg         mg/kg           ND         25.0           ND         50.0           82.1 %         mg/kg	Result         Limit         Dil           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           IO         70-130           101 %         70-130           106 %         70-130           mg/kg         mg/kg           ND         20.0           102 %         70-130           106 %         70-130           106 %         70-130           mg/kg         mg/kg           ND         25.0           ND         50.0           82.1 %         50-200           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Analyst:           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           102 %         70-130           104 %         70-130           106 %         70-130           mg/kg         mg/kg         Analyst:           ND         20.0         1           106 %         70-130         1           mg/kg         mg/kg         Analyst:           ND         25.0         1           ND         50.0         1           82.1 %         50-200           mg/kg         Analyst:	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         08/30/24           ND         0.0250         1         08/30/24           ND         0.0250         1         08/30/24           ND         0.0250         1         08/30/24           ND         0.0500         1         08/30/24           ND         0.0250         1         08/30/24           ND         70-130         08/30/24           101 %         70-130         08/30/24           106 %         70-130         08/30/24           ND         20.0         1         08/30/24           102 %         70-130         08/30/24           101 %         70-130         08/30/24           106 %         70-130         08/30/24           106 %         70-130         08/30/24           106 %         70-130         08/30/24           106 %         70-130         08/30/24           ND         25.0         1         08/30/24           ND         50.0         1         08/30/24           ND <td< td=""><td>Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         08/30/24         09/04/24           ND         0.0500         1         08/30/24         09/04/24           ND         0.0250         1         08/30/24         09/04/24           ND         0.0250         1         08/30/24         09/04/24           ND         0.0250         1         08/30/24         09/04/24           101%         70-130         08/30/24         09/04/24           106%         70-130         08/30/24         09/04/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         08/30/24         09/04/24           106%         70-130         08/30/24         09/04/24           106%         70-130         08/30/24         09/04/24           mg/kg</td></td<>	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         08/30/24         09/04/24           ND         0.0500         1         08/30/24         09/04/24           ND         0.0250         1         08/30/24         09/04/24           ND         0.0250         1         08/30/24         09/04/24           ND         0.0250         1         08/30/24         09/04/24           101%         70-130         08/30/24         09/04/24           106%         70-130         08/30/24         09/04/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         08/30/24         09/04/24           106%         70-130         08/30/24         09/04/24           106%         70-130         08/30/24         09/04/24           mg/kg



 Earth Systems
 Project Name:
 RDX 28-11

 1910 Resource Ct
 Project Number:
 01058-0007
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Gilbert Moreno
 9/6/2024 1:16:03PM

## HA-4-4' E408270-09

		2100270 09					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:			Batch: 2435120
Benzene	ND	0.0250		1	08/30/24	09/04/24	
Ethylbenzene	ND	0.0250		1	08/30/24	09/04/24	
Toluene	ND	0.0250		1	08/30/24	09/04/24	
o-Xylene	ND	0.0250		1	08/30/24	09/04/24	
p,m-Xylene	ND	0.0500		1	08/30/24	09/04/24	
Total Xylenes	ND	0.0250		1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		99.8 %	70-130		08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130		08/30/24	09/04/24	
Surrogate: Toluene-d8		107 %	70-130		08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: BA		Batch: 2435120
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		99.8 %	70-130		08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130		08/30/24	09/04/24	
Surrogate: Toluene-d8		107 %	70-130		08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2435121
Diesel Range Organics (C10-C28)	ND	25.0		1	08/30/24	09/05/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/30/24	09/05/24	
Surrogate: n-Nonane		79.1 %	50-200		08/30/24	09/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2435126
Chloride	339	20.0		1	08/30/24	08/31/24	



Earth SystemsProject Name:RDX 28-111910 Resource CtProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 1:16:03PM

## HA-5-0.5' E408270-10

		210027010				
Analyte	Result	Reporting Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: BA		Batch: 2435120
Benzene	ND	0.0250	1	08/30/24	09/04/24	
Ethylbenzene	ND	0.0250	1	08/30/24	09/04/24	
Toluene	ND	0.0250	1	08/30/24	09/04/24	
o-Xylene	ND	0.0250	1	08/30/24	09/04/24	
p,m-Xylene	ND	0.0500	1	08/30/24	09/04/24	
Total Xylenes	ND	0.0250	1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		105 %	70-130	08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	08/30/24	09/04/24	
Surrogate: Toluene-d8		106 %	70-130	08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: BA		Batch: 2435120
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		105 %	70-130	08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	08/30/24	09/04/24	
Surrogate: Toluene-d8		106 %	70-130	08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	.nalyst: NV		Batch: 2435121
Diesel Range Organics (C10-C28)	202	25.0	1	08/30/24	09/05/24	_
Oil Range Organics (C28-C36)	76.6	50.0	1	08/30/24	09/05/24	
Surrogate: n-Nonane		77.1 %	50-200	08/30/24	09/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2435126
Chloride	20600	1000	50	08/30/24	08/31/24	



 Earth Systems
 Project Name:
 RDX 28-11

 1910 Resource Ct
 Project Number:
 01058-0007
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Gilbert Moreno
 9/6/2024
 1:16:03PM

## HA-5-4' E408270-11

		Reporting					
Analyte	Result	Limit	Dilu	tion P	repared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: BA			Batch: 2435120
Benzene	ND	0.0250	1	. 0	8/30/24	09/03/24	
Ethylbenzene	ND	0.0250	1	0	8/30/24	09/03/24	
Toluene	ND	0.0250	1	0	8/30/24	09/03/24	
o-Xylene	ND	0.0250	1	. 0	8/30/24	09/03/24	
p,m-Xylene	ND	0.0500	1	. 0	8/30/24	09/03/24	
Total Xylenes	ND	0.0250	1	. 0	8/30/24	09/03/24	
Surrogate: Bromofluorobenzene		99.8 %	70-130	0	08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		91.8 %	70-130	0	8/30/24	09/03/24	
Surrogate: Toluene-d8		108 %	70-130	0	08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: BA			Batch: 2435120
Gasoline Range Organics (C6-C10)	ND	20.0	1	. 0	8/30/24	09/03/24	
Surrogate: Bromofluorobenzene		99.8 %	70-130	0	8/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		91.8 %	70-130	0	8/30/24	09/03/24	
Surrogate: Toluene-d8		108 %	70-130	0	08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: NV			Batch: 2435121
Diesel Range Organics (C10-C28)	ND	25.0	1	0	8/30/24	09/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	0	8/30/24	09/05/24	
Surrogate: n-Nonane		73.0 %	50-200	0	08/30/24	09/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: DT			Batch: 2435126
Chloride	1360	40.0	2	2 0	8/30/24	08/31/24	·

Earth SystemsProject Name:RDX 28-111910 Resource CtProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 1:16:03PM

## HA-6-0.5' E408270-12

	E400270-12				
D 1	Reporting	<b>D</b>			N.
Result	Limit	Dilutio	on Prepared	Analyzed	Notes
mg/kg	mg/kg	A	nalyst: BA		Batch: 2435120
ND	0.0250	1	08/30/24	09/04/24	
ND	0.0250	1	08/30/24	09/04/24	
ND	0.0250	1	08/30/24	09/04/24	
ND	0.0250	1	08/30/24	09/04/24	
ND	0.0500	1	08/30/24	09/04/24	
ND	0.0250	1	08/30/24	09/04/24	
	103 %	70-130	08/30/24	09/04/24	
	94.5 %	70-130	08/30/24	09/04/24	
	105 %	70-130	08/30/24	09/04/24	
mg/kg	mg/kg	A	nalyst: BA		Batch: 2435120
ND	20.0	1	08/30/24	09/04/24	
	103 %	70-130	08/30/24	09/04/24	
	94.5 %	70-130	08/30/24	09/04/24	
	105 %	70-130	08/30/24	09/04/24	
mg/kg	mg/kg	Ai	nalyst: NV		Batch: 2435121
136	25.0	1	08/30/24	09/05/24	
	25.0 50.0	1 1	08/30/24 08/30/24	09/05/24 09/05/24	
136		•			
136	50.0	50-200	08/30/24	09/05/24	Batch: 2435126
	ND ND ND ND ND ND ND ND ND	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           IO3 %         94.5 %           IO5 %         103 %           94.5 %         94.5 %           IO3 %         94.5 %           IO5 %         105 %	Reporting           Result         Limit         Diluti           mg/kg         mg/kg         A           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           103 %         70-130           94.5 %         70-130           mg/kg         mg/kg         A           ND         20.0         1           103 %         70-130           94.5 %         70-130           105 %         70-130	Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         08/30/24           ND         0.0250         1         08/30/24           ND         0.0250         1         08/30/24           ND         0.0500         1         08/30/24           ND         0.0250         1         08/30/24           ND         70-130         08/30/24           94.5 %         70-130         08/30/24           105 %         70-130         08/30/24           MD         20.0         1         08/30/24           94.5 %         70-130         08/30/24           103 %         70-130         08/30/24           94.5 %         70-130         08/30/24           105 %         70-130         08/30/24           105 %         70-130         08/30/24	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         08/30/24         09/04/24           ND         0.0250         1         08/30/24         09/04/24           ND         0.0250         1         08/30/24         09/04/24           ND         0.0500         1         08/30/24         09/04/24           ND         0.0250         1         08/30/24         09/04/24           ND         0.0250         1         08/30/24         09/04/24           ND         0.0250         1         08/30/24         09/04/24           94.5 %         70-130         08/30/24         09/04/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         08/30/24         09/04/24           mg/kg         70-130         08/30/24         09/04/24           94.5 %         70-130         08/30/24         09/04/24           103 %         70-130         08/30/24         09/04/24           105 %         70-130         08/30/24         09/04/24



Earth SystemsProject Name:RDX 28-111910 Resource CtProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 1:16:03PM

## HA-6-4' E408270-13

Result			tion	Prepared	Analyzed	Notes
					rmaryzed	
mg/kg	mg/kg	1	Analyst: 1	BA		Batch: 2435120
ND	0.0250	1		08/30/24	09/04/24	
ND	0.0250	1		08/30/24	09/04/24	
ND	0.0250	1		08/30/24	09/04/24	
ND	0.0250	1		08/30/24	09/04/24	
ND	0.0500	1		08/30/24	09/04/24	
ND	0.0250	1	l	08/30/24	09/04/24	
	103 %	70-130		08/30/24	09/04/24	
	92.1 %	70-130		08/30/24	09/04/24	
	107 %	70-130		08/30/24	09/04/24	
mg/kg	mg/kg	1	Analyst: 1	BA		Batch: 2435120
ND	20.0	1		08/30/24	09/04/24	
	103 %	70-130		08/30/24	09/04/24	
	92.1 %	70-130		08/30/24	09/04/24	
	107 %	70-130		08/30/24	09/04/24	
mg/kg	mg/kg	1	Analyst: 1	NV		Batch: 2435121
ND	25.0	1		08/30/24	09/05/24	
ND	50.0	1	<u> </u>	08/30/24	09/05/24	
	77.6 %	50-200		08/30/24	09/05/24	
mg/kg	mg/kg	1	Analyst: 1	DT		Batch: 2435126
4320	100	5	;	08/30/24	08/31/24	
	ND ND ND ND ND ND Mg/kg ND Mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           IO3 %         92.1 %           107 %         107 %           mg/kg         mg/kg           ND         20.0           IO3 %         92.1 %           107 %         107 %           mg/kg         mg/kg           ND         25.0           ND         50.0           77.6 %         mg/kg           mg/kg         mg/kg	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           103 %         70-130           92.1 %         70-130           107 %         70-130           mg/kg         mg/kg           ND         20.0           103 %         70-130           92.1 %         70-130           107 %         70-130           mg/kg         mg/kg           ND         25.0           ND         50.0           77.6 %         50-200           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Analyst:           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0500         1           ND         0.0250         1           ND         70-130         1           92.1 %         70-130         70-130           mg/kg         mg/kg         Analyst:           ND         20.0         1           103 %         70-130         70-130           92.1 %         70-130         70-130           mg/kg         mg/kg         Analyst:           ND         25.0         1           ND         50.0         1           77.6 %         50-200           mg/kg         Mg/kg         Analyst:	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         08/30/24           ND         0.0250         1         08/30/24           ND         0.0250         1         08/30/24           ND         0.0250         1         08/30/24           ND         0.0500         1         08/30/24           ND         0.0250         1         08/30/24           ND         0.0250         1         08/30/24           92.1 %         70-130         08/30/24           92.1 %         70-130         08/30/24           107 %         70-130         08/30/24           107 %         70-130         08/30/24           107 %         70-130         08/30/24           107 %         70-130         08/30/24           107 %         70-130         08/30/24           107 %         70-130         08/30/24           107 %         70-130         08/30/24           107 %         70-130         08/30/24           ND         25.0         1         08/30/24           ND         50.0 </td <td>Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         08/30/24         09/04/24           ND         0.0500         1         08/30/24         09/04/24           ND         0.0250         1         08/30/24         09/04/24           ND         0.0250         1         08/30/24         09/04/24           92.1 %         70-130         08/30/24         09/04/24           92.1 %         70-130         08/30/24         09/04/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         08/30/24         09/04/24           92.1 %         70-130         08/30/24         09/04/24           92.1 %         70-130         08/30/24         09/04/24           mg/kg         mg/kg         Analyst: NV           ND         25.0         1</td>	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         08/30/24         09/04/24           ND         0.0500         1         08/30/24         09/04/24           ND         0.0250         1         08/30/24         09/04/24           ND         0.0250         1         08/30/24         09/04/24           92.1 %         70-130         08/30/24         09/04/24           92.1 %         70-130         08/30/24         09/04/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         08/30/24         09/04/24           92.1 %         70-130         08/30/24         09/04/24           92.1 %         70-130         08/30/24         09/04/24           mg/kg         mg/kg         Analyst: NV           ND         25.0         1



 Earth Systems
 Project Name:
 RDX 28-11

 1910 Resource Ct
 Project Number:
 01058-0007
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Gilbert Moreno
 9/6/2024 1:16:03PM

## HA-7-0.5' E408270-14

		12400270-14				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: BA		Batch: 2435120
Benzene	0.0605	0.0250	1	08/30/24	09/04/24	Buton. 2 133120
	4.98	0.0250	1	08/30/24		
Ethylbenzene	3.53	0.0250	1	08/30/24		
Toluene	3.55 7.95	0.0250	1	08/30/24		
o-Xylene			1	08/30/24		
p,m-Xylene	14.7	0.0500	1			
Total Xylenes	22.6	0.0250	1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	08/30/24	09/04/24	
Surrogate: Toluene-d8		116 %	70-130	08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: BA		Batch: 2435120
Gasoline Range Organics (C6-C10)	447	20.0	1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	08/30/24	09/04/24	
Surrogate: Toluene-d8		116 %	70-130	08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2435121
Diesel Range Organics (C10-C28)	34800	500	20	08/30/24	09/05/24	
Oil Range Organics (C28-C36)	13200	1000	20	08/30/24	09/05/24	
Surrogate: n-Nonane		462 %	50-200	08/30/24	09/05/24	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2435126
Chloride	4780	200	10	08/30/24	08/31/24	



 Earth Systems
 Project Name:
 RDX 28-11

 1910 Resource Ct
 Project Number:
 01058-0007
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Gilbert Moreno
 9/6/2024 1:16:03PM

## HA-8-0.5' E408270-15

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analy	st: BA		Batch: 2435120
Benzene	ND	0.250	10	08/30/24	09/04/24	
Ethylbenzene	5.26	0.250	10	08/30/24	09/04/24	
Toluene	2.04	0.250	10	08/30/24	09/04/24	
o-Xylene	10.0	0.250	10	08/30/24	09/04/24	
p,m-Xylene	18.4	0.500	10	08/30/24	09/04/24	
Total Xylenes	28.4	0.250	10	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	08/30/24	09/04/24	
Surrogate: Toluene-d8		103 %	70-130	08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2435120
Gasoline Range Organics (C6-C10)	1120	200	10	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	08/30/24	09/04/24	
Surrogate: Toluene-d8		103 %	70-130	08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2435121
Diesel Range Organics (C10-C28)	39300	500	20	08/30/24	09/05/24	
Oil Range Organics (C28-C36)	15100	1000	20	08/30/24	09/05/24	
Surrogate: n-Nonane		435 %	50-200	08/30/24	09/05/24	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2435126
Chloride	4900	200	10	08/30/24	08/31/24	



Earth Systems Project Name: RDX 28-11 Reported:
1910 Resource Ct Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 9/6/2024 1:16:03PM

Carlsbad NM, 88220		Project Manage	r: Gi	ilbert Moreno				9/6	5/2024 1:16:03PN
	V	olatile Organ	ic Compo	unds by El	PA 82601	В			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 (2435120-BLK1)							Prepared: 0	8/30/24 Anal	yzed: 09/03/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			
LCS (2435120-BS1)							Prepared: 0	8/30/24 Anal	yzed: 09/03/24
Benzene	2.45	0.0250	2.50		98.1	70-130			
Ethylbenzene	2.41	0.0250	2.50		96.4	70-130			
Toluene	2.42	0.0250	2.50		96.6	70-130			
o-Xylene	2.29	0.0250	2.50		91.8	70-130			
p,m-Xylene	4.63	0.0500	5.00		92.5	70-130			
Total Xylenes	6.92	0.0250	7.50		92.3	70-130			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			
Matrix Spike (2435120-MS1)				Source:	E408270-	11	Prepared: 0	8/30/24 Anal	yzed: 09/03/24
Benzene	2.49	0.0250	2.50	ND	99.6	48-131			
Ethylbenzene	2.46	0.0250	2.50	ND	98.4	45-135			
Toluene	2.46	0.0250	2.50	ND	98.4	48-130			
o-Xylene	2.32	0.0250	2.50	ND	92.9	43-135			
p,m-Xylene	4.68	0.0500	5.00	ND	93.5	43-135			
Total Xylenes	7.00	0.0250	7.50	ND	93.3	43-135			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			
Matrix Spike Dup (2435120-MSD1)				Source:	E408270-	11	Prepared: 0	8/30/24 Anal	yzed: 09/03/24
Benzene	2.47	0.0250	2.50	ND	98.8	48-131	0.847	23	
Ethylbenzene	2.44	0.0250	2.50	ND	97.6	45-135	0.898	27	
Toluene	2.44	0.0250	2.50	ND	97.5	48-130	0.878	24	
o-Xylene	2.29	0.0250	2.50	ND	91.5	43-135	1.54	27	
p,m-Xylene	4.64	0.0500	5.00	ND	92.8	43-135	0.805	27	
Total Xylenes	6.93	0.0250	7.50	ND	92.4	43-135	1.05	27	
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
6 10 D. H. J. H.	0.407		0.500		07.2	70 120			



0.500

0.500

97.3

106

70-130

70-130

0.487

0.529

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

Earth SystemsProject Name:RDX 28-11Reported:1910 Resource CtProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 1:16:03PM

Nonhalogenated	Organics by	v EPA 8015D	- GRO

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

	Result	Lillit	LCVCI	resur	Rec	Lillius	KI D	Lillin	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2435120-BLK1)							Prepared: 0	8/30/24	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			
LCS (2435120-BS2)							Prepared: 0	8/30/24	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	·	94.8	70-130		·	·
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			
Matrix Spike (2435120-MS2)				Source:	E408270-1	1	Prepared: 0	8/30/24	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	47.3	20.0	50.0	ND	94.7	70-130			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4									
	0.460		0.500		92.0	70-130			
Surrogate: Toluene-d8	0.460 0.535		0.500 0.500		92.0 107	70-130 70-130			
Surrogate: Toluene-d8  Matrix Spike Dup (2435120-MSD2)				Source:		70-130	Prepared: 0	8/30/24	Analyzed: 09/03/24
-		20.0		Source:	107	70-130	Prepared: 00	8/30/24	Analyzed: 09/03/24
Matrix Spike Dup (2435120-MSD2)	0.535	20.0	0.500		107 <b>E408270-</b> 1	70-130			Analyzed: 09/03/24
Matrix Spike Dup (2435120-MSD2) Gasoline Range Organics (C6-C10)	<i>0.535</i> 49.7	20.0	50.0		107 <b>E408270-</b> 1 99.5	70-130 11 70-130			Analyzed: 09/03/24



Earth SystemsProject Name:RDX 28-11Reported:1910 Resource CtProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 1:16:03PM

Carlsbad NM, 88220		Project Manage	r: Gı	lbert Moreno				Ş	0/6/2024 1:16:03PM
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2435121-BLK1)							Prepared: 0	8/30/24 Ana	alyzed: 09/04/24
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	37.9		50.0		75.8	50-200			
LCS (2435121-BS1)							Prepared: 0	8/30/24 Ana	alyzed: 09/04/24
Diesel Range Organics (C10-C28)	188	25.0	250		75.2	38-132			
urrogate: n-Nonane	40.5		50.0		80.9	50-200			
Matrix Spike (2435121-MS1)				Source:	E408270-	08	Prepared: 0	8/30/24 Ana	alyzed: 09/04/24
Diesel Range Organics (C10-C28)	195	25.0	250	ND	78.2	38-132			
urrogate: n-Nonane	40.3		50.0		80.7	50-200			
Matrix Spike Dup (2435121-MSD1)				Source:	E408270-	08	Prepared: 0	8/30/24 Ana	alyzed: 09/04/24
Diesel Range Organics (C10-C28)	203	25.0	250	ND	81.1	38-132	3.60	20	
urrogate: n-Nonane	42.6		50.0		85.2	50-200			



Earth Systems		Project Name:		DX 28-11					Reported:
1910 Resource Ct		Project Number:		058-0007					0/C/2024 1:1C:02DM
Carlsbad NM, 88220		Project Manager	: G	ilbert Moreno					9/6/2024 1:16:03PM
		Anions	by EPA 3	00.0/9056	A				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2435126-BLK1)							Prepared: 0	8/30/24 A	nalyzed: 08/31/24
Chloride	ND	20.0							
LCS (2435126-BS1)							Prepared: 0	8/30/24 A	nalyzed: 08/31/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2435126-MS1)				Source:	E408270-0	03	Prepared: 0	8/30/24 A	nalyzed: 08/31/24
Chloride	16200	400	250	15000	476	80-120			M4
Matrix Spike Dup (2435126-MSD1)				Source:	E408270-0	03	Prepared: 0	8/30/24 A	nalyzed: 08/31/24
Chloride	15900	400	250	15000	339	80-120	2.13	20	M4

#### QC Summary Report Comment:

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



## **Definitions and Notes**

	Earth Systems	Project Name: RDX 28-11	
ı	1910 Resource Ct	Project Number: 01058-0007	Reported:
ı	Carlsbad NM, 88220	Project Manager: Gilbert Moreno	09/06/24 13:16

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

associated LCS spike recovery was acceptable.

S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



## **Chain of Custody**

	1 2
Page	of C

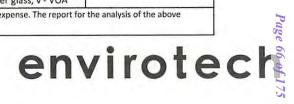
Client Information			Invoice Information					La	b Us	e Or	ly			TAT State					е				
Client: 1	arth System	s R & R				npany: WPX Energy Permia	n			WO#			dot	Num	ber		1D	2D	3D	Std	NM	co ut	TX
Project N	Name: RDX 2	28-11			Add	Iress: 5315 Buena Vista Dr			E4	08	27	0	Olo	58	-00	TOC				Х	X		
Project N	Manager: Gil	bert Mor	eno		City	, State, Zip: Carlsbad, NM 88	220																
	1910 Resor				Pho	one:							Ana	lysis	and	Met	hod					A Progra	
	te, Zip: Carls		88220		Ema	ail: jim.raley@dvn.com															SDWA	CWA	RCRA
	832-541-77				wo	: TBD												1 3				1 4	1.0
Email:	gmoreno@e	arthsys.r	net							015											Compliano	e Y	or N
										by 8		121	90	0.00	Σ	×	etals	n Pkg	1	}	PWSID#		
				Sam	ple Informati	on	b- 1	J 1-1		ORO	(ft)	by 8(	ıy 82	de 3	C-1	500	8 M	/Anio				Remarks	
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lat Numl	ber	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8250	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg				Kemarks	
9:00	8/28/2024	S	1			HA-1		1			0.5				X						Incident #	: nAPP24	22545957
9:10	8/28/2024	S	1			HA-1		2			4				х						***************************************		
9:20	8/28/2024	S	1			HA-2		3			0.5				х								
9:30	8/28/2024	S	1			HA-2		4			4				х								
9:40	8/28/2024	S	1			HA-3		5			0.5				х								
9:50	8/28/2024	S	1			HA-3		U	0		4				х								
10:00	8/28/2024	S	1			HA-4		7			0.5				х								
10:10	8/28/2024	S	1			HA-4		8			2				х								
10:20	8/28/2024	S	1			HA-4		9			4				х								
10:30	8/28/2024	S	1			HA-5		10	0		0.5				х								
Addition	nal Instruction	ons:																					
I, (field sam Sampled by	/ 1/	e validity and	d authenticity	of this samp	ole. I am aware tha	at tampering with or intentionally mislab	eling the s	ample lo	cation	n, date	or tim	ne of c	ollectio	on is co	onsider	red fra	ud and	d may l	be grou	nds fo	r legal action		
Relinquish	ed by: (Signatur	re)	B.	29.24	Time 08:00	Received by (Signature)	ec 8	29.2	4	Time	800										st be received temp above 0		
Relinguish lic	ed by Signatu	e) onza	Date	29.24	Time 1640	Received by: (Signature)	Date	29.7	14	Time 10	ou	0			Rec	eive	d on	ice:		b Us	e Only		
It.	ed by: (Signatur		Date	29.24	12300	Received by: (Signature)	Date			Time	50				<u>T1</u>				T2			<u>T3</u>	
Relinquish	ed by: (Signatur	re)	Date		Time	Received by: (Signature)	Date	9		Time					AVG	Ten	np °C	. (	1				
	trix: S - Soil, Sd - S								_						_			_					
Note: Sam	ples are discard	led 14 days	after results	are report	ed unless other	arrangements are made. Hazardous his COC. The liability of the laborato	samples		eturn	ed to	client	or di	spose	lastic	, ag	- amb	er gl	ass, v	- VOA		the analysi:	of the ab	ove





	Clie	nt Inform	nation		Invoice Inform	ation			La	b Us	e Only	/			TA	AT T		S	tate
ient: I	arth System:	R&R			Company: WPX Energy Po	ermian	Lab WO# Job Number 1D 2D 3D Std NM CO						NM CO	UT TX					
oject I	Name: RDX 2	8-11			Address: 5315 Buena Vista	-	E	408	327	0	6105	8-0	00			X		X	
	Manager: Gilb		eno		City, State, Zip: Carlsbad, N	M 88220													
	1910 Resou		00220		Phone:		_		1		Analy	sis ar	id Me	thod			CD	EPA Pro	
	te, Zip: Carls 832-541-77		88220		Email: jim.raley@dvn.com		_										30	WA CW	/A RCRA
	gmoreno@e	-	net		WO: TBD			1 5									Com	pliance	Y or
iuii.	<u> giriorenoe e</u>	<u> </u>	100					801		_		0.		S	s kg		PWS		
				Sample Inf	ormation			O by	£	802	8260	300	15-17	Meta	nion F				
Time impled	Date Sampled	Matrix	No. of Containers		Sample ID	Field	Lab Numbe	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg			Rema	arks
10:40	8/28/2024	S	1		HA-5		11		4			)	(				Incid	lent #: nAP	P24225459
10:50	8/28/2024	S	1		HA-6		12		0.5			>	(						
11:00	8/28/2024	S	1		HA-6		13		4			>	(						
11:10	8/28/2024	S	1		HA-7		14		0.5			)	(						
11:30	8/28/2024	S	1		HA-8		15	5	0.5			)	(						
	$\Lambda$	4 /						-			+		+				-		
	Gill	ing						-			+	+	-				+		
											+	+					+		
ddition	al Instructio	ns:																	
	/ 1/	validity and	d authenticity	of this sample. I am	aware that tampering with or intentionally	mislabeling the sa	mple loca	tion, dat	e or tim	e of co	llection	is consi	dered fr	aud and	d may b	e grounds	for lega	action.	
mpled by	ed by: (Signature	e)	Date	Time	Received by: (Signature)	Date		Time						ALC: 120.0				eceived on ice th	
(sy	Sun			9.24 03	:00 Muhelle Gan		2924		Ja	)		100	sequent		packed			bove 0 but less	tnan 6 Con
Vic	ed by: (Signatur	engal			Received by: (Signature)		24.2	Y Time	640			Re	eceive	d on	ice:	CP/	Use Or N	nly	
1.3	ed by: (Signatur 1.		8.	19.14 73			10-24		sa			T				<u>T2</u>		<u>T3</u>	
linguish	ed by: (Signatur	e)	Date	Time	Received by: (Signature)	Date		Time				A	/G Te	mp °(		1_			
	rix: S - Soll, Sd - S	olid Sa - Slu	idao A - Aquo	our O Othor		Con	tainer Ty	vne. a -	alace	n - n	alv/nla	estic a	g - 2m	her al	acc V	VOA	7		





envirotech Inc.

Printed: 8/30/2024 11:09:11AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Earth Systems	Date Received:	08/30/24	05:00	Work Order I	D: E408270	
Phone:	832-541-7719	Date Logged In:	08/30/24	06:14	Logged In By	y: Keyliegh Hall	
Email:	gmoreno@earthsys.net	Due Date:	09/06/24	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: Co	<u>urier</u>		
4. Was th	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes				
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes		<u>Comn</u>	nents/Resolution	
Sample T	<u> Curn Around Time (TAT)</u>			Γ			
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (	Cooler						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C.  Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes C				
	Container _	· • • · · · · · <u> </u>	_				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	?	Yes				
	appropriate volume/weight or number of sample contai		Yes				
Field Lal	•						
-	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	ate/Time Collected?		Yes	_			
	ollectors name?		Yes				
	Preservation	10					
	the COC or field labels indicate the samples were p	reserved?	No				
	ample(s) correctly preserved?	. 1.0	NA				
24. Is lab	filteration required and/or requested for dissolved n	netais?	No				
	se Sample Matrix						
	the sample have more than one phase, i.e., multipha		No				
27. If yes	, does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
28. Are sa	amples required to get sent to a subcontract laborato	ry?	No				
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA	Subcontract Lab:			
Client I	<u>ıstruction</u>						
							$\neg$
<u></u>							

Date

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

Report to:
Gilbert Moreno



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Earth Systems

Project Name: RDX 28-11

Work Order: E408266

Job Number: 01058-0007

Received: 8/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/6/24

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

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

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

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

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

Date Reported: 9/6/24

Gilbert Moreno 1910 Resource Ct Carlsbad, NM 88220

Project Name: RDX 28-11 Workorder: E408266

Date Received: 8/30/2024 5:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/30/2024 5:00:00AM, under the Project Name: RDX 28-11.

The analytical test results summarized in this report with the Project Name: RDX 28-11 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

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

whinchman@envirotech-inc.com

Raina Schwanz

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Envirotech Web Address: www.envirotech-inc.com

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## **Sample Summary**

		·	
Earth Systems	Project Name:	RDX 28-11	Reported:
1910 Resource Ct	Project Number:	01058-0007	Reported.
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/06/24 07:59

Client Sample ID	Lab Sample ID M	<b>Iatrix</b>	Sampled	Received	Container
HA-7 - 2	E408266-01A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.



Earth Systems	Project Name:	RDX 28-11	
1910 Resource Ct	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/6/2024 7:59:55AM

## HA-7 - 2 E408266-01

		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2435115	
Benzene	ND	0.0250		1	08/30/24	09/04/24	
Ethylbenzene	ND	0.0250		1	08/30/24	09/04/24	
Toluene	ND	0.0250		1	08/30/24	09/04/24	
o-Xylene	ND	0.0250		1	08/30/24	09/04/24	
p,m-Xylene	ND	0.0500		1	08/30/24	09/04/24	
Total Xylenes	ND	0.0250		1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		95.8 %	70-130		08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130		08/30/24	09/04/24	
Surrogate: Toluene-d8		100 %	70-130		08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA			Batch: 2435115
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		95.8 %	70-130		08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130		08/30/24	09/04/24	
Surrogate: Toluene-d8		100 %	70-130		08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	Analyst: NV			Batch: 2435117	
Diesel Range Organics (C10-C28)	43.3	25.0		1	08/30/24	09/02/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/30/24	09/02/24	
Surrogate: n-Nonane		91.6 %	50-200		08/30/24	09/02/24	
Anions by EPA 300.0/9056A		mg/kg		Analyst	: IY		Batch: 2435123
Chloride	216	20.0		1	08/30/24	08/31/24	



Earth Systems Project Name: RDX 28-11 Reported:
1910 Resource Ct Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 9/6/2024 7:59:55AM

Carlsbad NM, 88220		Project Manage	r: Gi	ilbert Moreno				9/6	5/2024 7:59:55AN
	V	olatile Organ	ic Compo	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 (2435115-BLK1)							Prepared: 0	8/30/24 Anal	yzed: 09/03/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
LCS (2435115-BS1)							Prepared: 0	8/30/24 Anal	yzed: 09/03/24
Benzene	2.33	0.0250	2.50		93.3	70-130			
Ethylbenzene	2.37	0.0250	2.50		94.8	70-130			
Toluene	2.52	0.0250	2.50		101	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
p,m-Xylene	5.06	0.0500	5.00		101	70-130			
Total Xylenes	7.57	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
Matrix Spike (2435115-MS1)				Source:	E408264-	01	Prepared: 0	8/30/24 Anal	yzed: 09/03/24
Benzene	2.36	0.0250	2.50	ND	94.5	48-131			
Ethylbenzene	2.38	0.0250	2.50	ND	95.1	45-135			
Toluene	2.52	0.0250	2.50	ND	101	48-130			
o-Xylene	2.54	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.64	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			
Matrix Spike Dup (2435115-MSD1)				Source:	E408264-	01	Prepared: 0	8/30/24 Anal	yzed: 09/03/24
Benzene	2.25	0.0250	2.50	ND	89.9	48-131	5.01	23	
Ethylbenzene	2.27	0.0250	2.50	ND	90.8	45-135	4.54	27	
Toluene	2.41	0.0250	2.50	ND	96.5	48-130	4.28	24	
o-Xylene	2.50	0.0250	2.50	ND	100	43-135	1.45	27	
p,m-Xylene	4.98	0.0500	5.00	ND	99.5	43-135	2.42	27	
Total Xylenes	7.48	0.0250	7.50	ND	99.7	43-135	2.10	27	
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
			0.500		102	<b>50 150</b>			

0.500

103

70-130

0.515

Surrogate: Toluene-d8

Earth SystemsProject Name:RDX 28-11Reported:1910 Resource CtProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 7:59:55AM

Nonhalogenated	<b>Organics</b>	by EPA	8015D -	GRO

Analyst: BA
-------------

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

	Result	LIIIII	Level	Result	Rec	LIIIIIIS	KPD	LIIIII	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2435115-BLK1)							Prepared: 08	8/30/24 Aı	nalyzed: 09/03/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
LCS (2435115-BS2)							Prepared: 08	3/30/24 Aı	nalyzed: 09/03/24
Gasoline Range Organics (C6-C10)	39.7	20.0	50.0		79.4	70-130	·		·
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.5	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			
Matrix Spike (2435115-MS2)				Source:	E408264-0	)1	Prepared: 08	3/30/24 Aı	nalyzed: 09/03/24
Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.4	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.7	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			
Surrogate: Toluene-d8  Matrix Spike Dup (2435115-MSD2)	0.524		0.500	Source:	105 <b>E408264-</b> 0		Prepared: 08	3/30/24 Aı	nalyzed: 09/03/24
	38.5	20.0	50.0	Source:			Prepared: 08	3/30/24 Ai	nalyzed: 09/03/24
Matrix Spike Dup (2435115-MSD2)		20.0			E408264-0	)1			nalyzed: 09/03/24
Matrix Spike Dup (2435115-MSD2) Gasoline Range Organics (C6-C10)	38.5	20.0	50.0		<b>E408264-0</b>	70-130			nalyzed: 09/03/24



Earth Systems Project Name: RDX 28-11 Reported:
1910 Resource Ct Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 9/6/2024 7:59:55AM

Carisbad NM, 88220		Project Manage	r: Gi	ibert Moreno					9/6/2024 /:39:33AN
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2435117-BLK1)							Prepared: 0	8/30/24 A	nalyzed: 09/01/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	48.2		50.0		96.5	50-200			
LCS (2435117-BS1)							Prepared: 0	8/30/24 A	nalyzed: 09/01/24
Diesel Range Organics (C10-C28)	230	25.0	250		92.0	38-132			
urrogate: n-Nonane	48.2		50.0		96.4	50-200			
Matrix Spike (2435117-MS1)				Source:	E408260-	02	Prepared: 0	8/30/24 A	nalyzed: 09/01/24
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.4	38-132			
urrogate: n-Nonane	46.8		50.0		93.7	50-200			
Matrix Spike Dup (2435117-MSD1)				Source:	E408260-	02	Prepared: 0	8/30/24 A	nalyzed: 09/01/24
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.4	38-132	1.11	20	
urrogate: n-Nonane	48.7		50.0		97.4	50-200			



Matrix Spike Dup (2435123-MSD1)

Chloride

### **QC Summary Data**

Earth Systems 1910 Resource Ct Carlsbad NM, 88220		Project Name: Project Number Project Manage	: 01	DX 28-11 1058-0007 ilbert Moreno					<b>Reported:</b> 9/6/2024 7:59:55AM
		Anions	by EPA 3	300.0/9056 <i>A</i>	`				Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2435123-BLK1)							Prepared: 0	8/30/24 Aı	nalyzed: 08/31/24
Chloride	ND	20.0							
LCS (2435123-BS1)							Prepared: 0	8/30/24 Aı	nalyzed: 08/31/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2435123-MS1)				Source:	E408260-	03	Prepared: 0	8/30/24 Aı	nalyzed: 08/31/24
Chloride	253	20.0	250	ND	101	80-120			

250

20.0

Source: E408260-03

101

80-120

0.0119

#### QC Summary Report Comment:

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



Prepared: 08/30/24 Analyzed: 08/31/24

20

# **Definitions and Notes**

Earth Systems	Project Name:	RDX 28-11	
1910 Resource Ct	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/06/24 07:59

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



### **Chain of Custody**

	1	
Page	of I	
I age		

	Clie	nt Inforn	nation			Invoice Information					La	b Us	e Or	ıly				T	AT		State	e
Client: E	arth System	s R & R			Co	mpany: WPX Energy Permian		La	ab \	WO#			Job	Num	ber		1D	2D	3D Std	NM	CO UT	TX
	lame: RDX 2				Ac	dress: 5315 Buena Vista Dr		E	E408266 01058-000					100			X	Х				
Project N	/lanager: Gill	bert Mor	eno		Cit	y, State, Zip: Carlsbad, NM 882	20															
	1910 Resou				PI	none:							Ana	lysis	and	Met	hod			EP	A Progra	am
	e, Zip: Carls		88220		En	nail: jim.raley@dvn.com									1					SDWA	CWA	RCRA
	832-541-77				W	WO: TBD																
Email:	gmoreno@e	arthsys.r	net							15								8 1		Compliand	e Y	or N
										y 80		н	0	0.0		×	als	Pkg		PWSID#		
				Sam	ple Informat	ion				30 b	2	802	826	300	N.	15-1	Met	nion				
Time Sampled	Date Sampled	Matrix	No. of Contains	rs		Sample ID	Field	Lab Numb	er	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg			Remarks	
11:15	8/28/2024	S	1			HA-7		1			2				Х					Incident #	: nAPP24	22545957
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	An	20										v										
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1																						
Addition	al Instruction	ns:							_			-										
I, (field sam	1	e validity and	d authent	city of this sam	ole. I am aware ti	nat tampering with or intentionally mislabeli	ng the sa	imple loca	ation	, date	or time	e of co	ollectic	n is co	nsider	ed fra	ud and	l may l	oe grounds fo	r legal action		
	ed by: (Signatur	e)	100	ste 3.29.24	Time 09:00	Received by: (Signature)	Date	2924		Time	800	)								st be received of temp above 0		
Relinguish	ed by (Signatur	e)	lec D	8-29-24	Time 40	Received by: (Signature)	Date			Time	40				Dog	uent.d:	d on i		Lab Us			
	ed by: (Signatur		D	3.29.24	Time 2300	Received by: (Signature)	Date	30.20		Time	500					aivec	1 011 1	ce.			тэ	
Relinquish	ed by: (Signatur	e)		ate	Time	Received by: (Signature)	Date	20.20	_	Time					T1	т.	np °C	-(	<u>T2</u>		<u>T3</u>	
Sample Mas	rix: S - Soil, Sd - S	olid Sa - Si-	idae A - A	GUADUS O - OH	Dr.	1	Con	tainer T	VDE	. 0 - 0	Place	n - n	oly/n	lastic	AVG	amh	er al	155 V	- VOA			
						arrangements are made. Hazardous sa			_			_	_							the analysis	of the ah	71/0
						this COC. The liability of the laboratory									. The C		pcii.		c . cport to	and untrivols	o. the abi	.,,





envirotech Inc.

Printed: 8/30/2024 10:45:15AM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

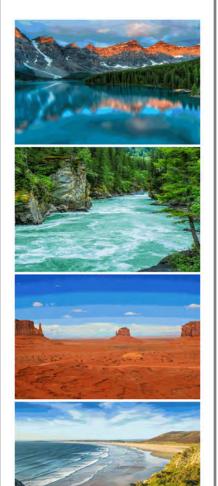
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Earth Systems	Date Received:	08/30/24 (	05:00	Work Order ID:	E408266
Phone:	832-541-7719	Date Logged In:	08/29/24 1	7:03	Logged In By:	Noe Soto
Email:	gmoreno@earthsys.net	Due Date:	09/06/24	17:00 (4 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Cou	<u>ırier</u>	
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes		<u>Comme</u>	nts/Resolution
Sample T	<u> Curn Around Time (TAT)</u>					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	, were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes C			
Sample C	•	· • • · · · · · <u> </u>	_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lal	•					
	field sample labels filled out with the minimum info	ormation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes	L		
C	ollectors name?		Yes			
	<u>Preservation</u>					
	the COC or field labels indicate the samples were pr	reserved?	No			
	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
	se Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	se?	No			
27. If yes	, does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	act Laboratory					
28. Are sa	amples required to get sent to a subcontract laborato	ry?	No			
29. Was a	subcontract laboratory specified by the client and is	f so who?	NA	Subcontract Lab: N	NA	
Client Ir	nstruction_					

Date

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

Report to:
Gilbert Moreno



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Earth Systems

Project Name: RDX 28-11

Work Order: E408265

Job Number: 01058-0007

Received: 8/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/6/24

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

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

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

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

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

Date Reported: 9/6/24

Gilbert Moreno 1910 Resource Ct Carlsbad, NM 88220

Project Name: RDX 28-11 Workorder: E408265

Date Received: 8/30/2024 5:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/30/2024 5:00:00AM, under the Project Name: RDX 28-11.

The analytical test results summarized in this report with the Project Name: RDX 28-11 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

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Envirotech Web Address: www.envirotech-inc.com

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### **Sample Summary**

		•	
Earth Systems	Project Name:	RDX 28-11	Reported:
1910 Resource Ct	Project Number:	01058-0007	Reported.
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/06/24 07:58

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
HA-7 - 4	E408265-01A Soil	08/28/24	08/30/24	Glass Jar, 2 oz.



# **Sample Data**

Earth Systems	Project Name:	RDX 28-11	
1910 Resource Ct	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/6/2024 7:58:25AM

### HA-7 - 4 E408265-01

		E400203-01					
Analyte	Result	Reporting Limit	Dil	ution	Prepared	Analyzed	Notes
Analyte	Result	Lillit	Dii	ution	Frepared	Anaryzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	BA		Batch: 2435115
Benzene	ND	0.0250		1	08/30/24	09/04/24	
Ethylbenzene	ND	0.0250		1	08/30/24	09/04/24	
Toluene	ND	0.0250		1	08/30/24	09/04/24	
o-Xylene	ND	0.0250		1	08/30/24	09/04/24	
p,m-Xylene	ND	0.0500		1	08/30/24	09/04/24	
Total Xylenes	ND	0.0250		1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		97.8 %	70-130		08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130		08/30/24	09/04/24	
Surrogate: Toluene-d8		101 %	70-130		08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	BA		Batch: 2435115
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		97.8 %	70-130		08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130		08/30/24	09/04/24	
Surrogate: Toluene-d8		101 %	70-130		08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2435117
Diesel Range Organics (C10-C28)	249	25.0		1	08/30/24	09/02/24	
Oil Range Organics (C28-C36)	97.3	50.0		1	08/30/24	09/02/24	
Surrogate: n-Nonane		90.9 %	50-200		08/30/24	09/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2435123
Chloride	131	20.0		1	08/30/24	08/31/24	



Earth Systems Project Name: RDX 28-11 Reported:
1910 Resource Ct Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 9/6/2024 7:58:25AM

Carlsbad NM, 88220		Project Manage	r: G	ilbert Moreno	1			9/6	/2024 7:58:25AN
Volatile Organic Compounds by EPA 8260B									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 (2435115-BLK1)							Prepared: 08	8/30/24 Analy	zed: 09/03/24
Benzene	ND	0.0250					-		
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
LCS (2435115-BS1)							Prepared: 08	8/30/24 Analy	zed: 09/03/24
Benzene	2.33	0.0250	2.50		93.3	70-130			
Ethylbenzene	2.37	0.0250	2.50		94.8	70-130			
Toluene	2.52	0.0250	2.50		101	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
p,m-Xylene	5.06	0.0500	5.00		101	70-130			
Total Xylenes	7.57	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
Matrix Spike (2435115-MS1)				Source:	E408264-	01	Prepared: 08	8/30/24 Analy	zed: 09/03/24
Benzene	2.36	0.0250	2.50	ND	94.5	48-131			
Ethylbenzene	2.38	0.0250	2.50	ND	95.1	45-135			
Toluene	2.52	0.0250	2.50	ND	101	48-130			
o-Xylene	2.54	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.64	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			
Matrix Spike Dup (2435115-MSD1)				Source:	E408264-	01	Prepared: 08	8/30/24 Analy	zed: 09/03/24
Benzene	2.25	0.0250	2.50	ND	89.9	48-131	5.01	23	
Ethylbenzene	2.27	0.0250	2.50	ND	90.8	45-135	4.54	27	
Toluene	2.41	0.0250	2.50	ND	96.5	48-130	4.28	24	
o-Xylene	2.50	0.0250	2.50	ND	100	43-135	1.45	27	
p,m-Xylene	4.98	0.0500	5.00	ND	99.5	43-135	2.42	27	
Total Xylenes	7.48	0.0250	7.50	ND	99.7	43-135	2.10	27	
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
			0.500		102	<b>50.15</b>			



0.500

103

70-130

0.515

Surrogate: Toluene-d8

Earth SystemsProject Name:RDX 28-11Reported:1910 Resource CtProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 7:58:25AM

Nonhalogenated	Organics by	<b>EPA</b>	.8015D -	GRO

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

	Result	2111110	Lever	1000011	rcc	Limito	10.2	2	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2435115-BLK1)							Prepared: 08	8/30/24 A	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
LCS (2435115-BS2)							Prepared: 08	8/30/24 A	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	39.7	20.0	50.0		79.4	70-130			
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.5	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			
Matrix Spike (2435115-MS2)				Source:	: E408264-	01	Prepared: 08	8/30/24 A	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.4	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.7	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			
Matrix Spike Dup (2435115-MSD2)				Source:	: E408264-	01	Prepared: 08	8/30/24 A	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	38.5	20.0	50.0	ND	77.1	70-130	1.74	20	
Surrogate: Bromofluorobenzene	0.490		0.500		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			



Earth Systems	Project Name:	RDX 28-11	Reported:
1910 Resource Ct	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/6/2024 7:58:25AM

Analyst:	: NV
RPD Limit	
% 1	Notes
08/30/24 Analyzed: 09	9/01/24
08/30/24 Analyzed: 09	9/01/24
08/30/24 Analyzed: 09	9/01/24
08/30/24 Analyzed: 09	9/01/24
20	
(	RPD Limit % N 19 108/30/24 Analyzed: 09 108/3

Matrix Spike Dup (2435123-MSD1)

Chloride

### **QC Summary Data**

Earth Systems 1910 Resource Ct		Project Name: Project Number:	01	OX 28-11 058-0007					Reported:
Carlsbad NM, 88220		Project Manager		ilbert Moreno 00.0/9056					9/6/2024 7:58:25AM
		Allions	Dy EFA 3	00.0/9030A	,				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 (2435123-BLK1)							Prepared: 0	8/30/24 Ai	nalyzed: 08/31/24
Chloride	ND	20.0							
LCS (2435123-BS1)							Prepared: 0	8/30/24 A	nalyzed: 08/31/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2435123-MS1)				Source:	E408260-	03	Prepared: 0	8/30/24 A	nalyzed: 08/31/24
Chloride	253	20.0	250	ND	101	80-120			

250

20.0

Source: E408260-03

101

80-120

0.0119

#### QC Summary Report Comment:

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



Prepared: 08/30/24 Analyzed: 08/31/24

20

# **Definitions and Notes**

Earth Systems	Project Name:	RDX 28-11	
1910 Resource Ct	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/06/24 07:58

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



### **Chain of Custody**

D	1 . 1
Page	I of I

	Clie	nt Inform	nation			Invoice Information	on				La	b Us	e Or	nly				Т	AT	910	Stat	e
Client: I	arth System	s R & R			Coi	mpany: WPX Energy Perm	ian		Lab	WO#	1		Job	Num	ber		1D	2D	3D Std	NM	CO UT	TX
Project I	Name: RDX 2	8-11			Ad	dress: 5315 Buena Vista Dr		3	E 4	109	326	5	Old	558	3-00	700			X	Х		
Project I	Manager: Gill	ert Mor	eno		Cit	, State, Zip: Carlsbad, NM 8	38220											-				
244252	1910 Resou				Ph	one:							Ana	lysis	and	Met	thod			EP	A Progra	am
City, Sta	te, Zip: Carls	bad NM,	88220		Em	ail: jim.raley@dvn.com														SDWA	CWA	RCRA
Phone:	832-541-77	19				): TBD							1 0									
700	gmoreno@e	_	net							2										Compliand	e Y	or N
										801		_		0		100	S	50		PWSID#		
				Sam	ple Informati	on				O by	t)	8021	8260	300	N.	XT-2	Meta	d uoin				
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lai Num		DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg		/ P	Remarks	
100000000000000000000000000000000000000				-				Num	per	۵		.8	>	0		¥	8	Ü		Contract to the Contract to th	A. A. Alianiaia	
11:20	8/28/2024	5	1			HA-7					4				X					Incident #	: nAPP24	22545957
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Addition	nal Instruction	ns:																				
I, (field sam	pler), attest to the	validity and	d authentici	ty of this samp	le. I am aware th	at tampering with or intentionally misla	abeling the	sample lo	cation	, date	or tim	e of co	ollectio	on is co	nsider	ed fra	ud and	d may	be grounds fo	r legal action		
Sampled by																						
Relinquish	ed by: (Signatur	e)	Date	29.24	08:00	Received by: (Signature)	Date	19.1	4	Time	800	2							in ice at an avg			
Daliaguid	ed by: (Signatur	-1	Date		Time	Received by: (Signature)	Date		1	Time	000				subsec	went d	avs					
Mic	hele G	oneal	ec 8	2924	1640	Received by (Signature)		.29.	24	10	640	0			Rece	eived	don	ice:	Lab Us			
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Relinquish	ed by: (Signatur	e)	Date		Time	Received by: (Signature)	Dat		4	Time	50	U			11				<u>T2</u>		<u>T3</u>	
															AVG	Ten	np °C		4			
	trix: <b>S</b> - Soil, <b>Sd</b> - S							ntainer				_			_							
						arrangements are made. Hazardou this COC. The liability of the laborat									the c	lient e	expen	se. Th	e report for	the analysis	of the abo	ove





Printed: 8/30/2024 10:41:02AM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Earth Systems	Date Received:	08/30/24	05:00		Work Order ID:	E408265
Phone:	832-541-7719	Date Logged In:	08/29/24	16:59		Logged In By:	Noe Soto
Email:	gmoreno@earthsys.net	Due Date:		17:00 (4 day TAT)			
Chain of	Custody (COC)						
1. Does t	he sample ID match the COC?		Yes				
2. Does t	he number of samples per sampling site location mate	ch the COC	Yes				
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was th	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes		<u>.</u>		
5. Were a	all samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion			,		Comment	s/Resolution
Sample 7	<u> Furn Around Time (TAT)</u>						
6. Did the	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	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling	received w/i 15	Yes				
13. If no	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
	<u>Container</u>						
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample contain	ers collected?	Yes				
Field La							
	field sample labels filled out with the minimum info	mation:	<b>V</b>				
	ample ID? Date/Time Collected?		Yes				
	Collectors name?		Yes Yes				
	Preservation		103				
	the COC or field labels indicate the samples were pro-	eserved?	No				
	ample(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved m	etals?	No				
	ase Sample Matrix						
•	the sample have more than one phase, i.e., multiphas	e?	No				
	, does the COC specify which phase(s) is to be analy		NA				
		zea:	NA				
	ract Laboratory						
	amples required to get sent to a subcontract laborator	-	No				
29. Was a	a subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab	: NA		
Client I	<u>nstruction</u>						

Date

Report to:
Gilbert Moreno





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Earth Systems

Project Name: RDX 28-11

Work Order: E408264

Job Number: 01058-0007

Received: 8/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/6/24

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

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

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

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

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

Date Reported: 9/6/24

Gilbert Moreno 1910 Resource Ct Carlsbad, NM 88220

Project Name: RDX 28-11 Workorder: E408264

Date Received: 8/30/2024 5:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/30/2024 5:00:00AM, under the Project Name: RDX 28-11.

The analytical test results summarized in this report with the Project Name: RDX 28-11 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

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### **Sample Summary**

		•	
Earth Systems	Project Name:	RDX 28-11	Reported:
1910 Resource Ct	Project Number:	01058-0007	Reported.
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/06/24 07:55

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
HA-8-2'	E408264-01A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.



# **Sample Data**

Earth Systems	Project Name:	RDX 28-11	
1910 Resource Ct	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/6/2024 7:55:52AM

### HA-8-2' E408264-01

		2.0020.01					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: BA		Batch: 2435115
Benzene	ND	0.0250		1	08/30/24	09/03/24	
Ethylbenzene	ND	0.0250		1	08/30/24	09/03/24	
Toluene	ND	0.0250		1	08/30/24	09/03/24	
o-Xylene	ND	0.0250		1	08/30/24	09/03/24	
p,m-Xylene	ND	0.0500		1	08/30/24	09/03/24	
Total Xylenes	ND	0.0250		1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		99.7 %	70-130		08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130		08/30/24	09/03/24	
Surrogate: Toluene-d8		102 %	70-130		08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: BA		Batch: 2435115
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		99.7 %	70-130		08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130		08/30/24	09/03/24	
Surrogate: Toluene-d8		102 %	70-130		08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2435117
Diesel Range Organics (C10-C28)	ND	25.0		1	08/30/24	09/01/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/30/24	09/01/24	
Surrogate: n-Nonane		92.7 %	50-200		08/30/24	09/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: IY		Batch: 2435123
Chloride	518	100		5	08/30/24	08/31/24	



Earth Systems Project Name: RDX 28-11 Reported:
1910 Resource Ct Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 9/6/2024 7:55:52AM

Carlsbad NM, 88220		Project Manager	r: Gi	ilbert Moreno				9/6.	/2024 7:55:52AN
	V	olatile Organi	ic Compo	unds by EP	A 82601	В		I	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 (2435115-BLK1)							Prepared: 08	8/30/24 Analy	zed: 09/03/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
LCS (2435115-BS1)							Prepared: 08	8/30/24 Analy	zed: 09/03/24
Benzene	2.33	0.0250	2.50		93.3	70-130			
Ethylbenzene	2.37	0.0250	2.50		94.8	70-130			
Toluene	2.52	0.0250	2.50		101	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
p,m-Xylene	5.06	0.0500	5.00		101	70-130			
Total Xylenes	7.57	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
Matrix Spike (2435115-MS1)				Source: 1	E408264-	01	Prepared: 08	8/30/24 Analy	zed: 09/03/24
Benzene	2.36	0.0250	2.50	ND	94.5	48-131			
Ethylbenzene	2.38	0.0250	2.50	ND	95.1	45-135			
Toluene	2.52	0.0250	2.50	ND	101	48-130			
p-Xylene	2.54	0.0250	2.50	ND	102	43-135			
o,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.64	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			
Matrix Spike Dup (2435115-MSD1)				Source:	E408264-	01	Prepared: 08	8/30/24 Analy	zed: 09/03/24
Benzene	2.25	0.0250	2.50	ND	89.9	48-131	5.01	23	
Ethylbenzene	2.27	0.0250	2.50	ND	90.8	45-135	4.54	27	
Toluene	2.41	0.0250	2.50	ND	96.5	48-130	4.28	24	
o-Xylene	2.50	0.0250	2.50	ND	100	43-135	1.45	27	
p,m-Xylene	4.98	0.0500	5.00	ND	99.5	43-135	2.42	27	
Total Xylenes	7.48	0.0250	7.50	ND	99.7	43-135	2.10	27	
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			

0.500

0.500

95.4

103

70-130

70-130

0.477

0.515

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

Earth SystemsProject Name:RDX 28-11Reported:1910 Resource CtProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 7:55:52AM

	Nonhalogenated	Organics by	EPA	. 8015D -	GRO
--	----------------	-------------	-----	-----------	-----

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

	Result	Limit	LCVCI	Result	Nec	Lillits	ICI D	Lillin	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2435115-BLK1)							Prepared: 0	8/30/24	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
LCS (2435115-BS2)							Prepared: 0	8/30/24	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	39.7	20.0	50.0	<u> </u>	79.4	70-130		<u> </u>	
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.5	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			
Matrix Spike (2435115-MS2)				Source:	E408264-0	01	Prepared: 0	8/30/24	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.4	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.7	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			
Matrix Spike Dup (2435115-MSD2)				Source:	E408264-0	01	Prepared: 0	8/30/24	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	38.5	20.0	50.0	ND	77.1	70-130	1.74	20	
	36.3	20.0							
Surrogate: Bromofluorobenzene	0.490	20.0	0.500		98.0	70-130			
		20.0	0.500 0.500		98.0 93.3	70-130 70-130			



Surrogate: n-Nonane

# **QC Summary Data**

Earth SystemsProject Name:RDX 28-11Reported:1910 Resource CtProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 7:55:52AM

Carisbad NM, 88220		Project Manage	r: Gi	ilbert Moreno	)				9/0/2024 /:33:32Alv
	Nonha	logenated Or	ganics by	EPA 80151	D - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2435117-BLK1)							Prepared: 0	8/30/24 An	alyzed: 09/01/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.2		50.0		96.5	50-200			
LCS (2435117-BS1)							Prepared: 0	8/30/24 An	alyzed: 09/01/24
Diesel Range Organics (C10-C28)	230	25.0	250		92.0	38-132			
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			
Matrix Spike (2435117-MS1)				Source:	E408260-	02	Prepared: 0	8/30/24 An	alyzed: 09/01/24
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.4	38-132			
Surrogate: n-Nonane	46.8		50.0		93.7	50-200			
Matrix Spike Dup (2435117-MSD1)				Source:	E408260-	02	Prepared: 0	8/30/24 An	alyzed: 09/01/24
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.4	38-132	1.11	20	

50.0

97.4

50-200



Chloride

### **QC Summary Data**

Earth Systems 1910 Resource Ct		Project Name: Project Number:		DX 28-11 1058-0007					Reported:
Carlsbad NM, 88220		Project Number: Project Manager		Gilbert Moreno					9/6/2024 7:55:52AM
		Anions	by EPA	300.0/9056 <i>A</i>	<b>A</b>				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 (2435123-BLK1)							Prepared: 0	8/30/24 A	nalyzed: 08/31/24
Chloride	ND	20.0							
LCS (2435123-BS1)							Prepared: 0	8/30/24 A	nalyzed: 08/31/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2435123-MS1)				Source:	E408260-	03	Prepared: 0	8/30/24 A	nalyzed: 08/31/24
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2435123-MSD1)				Source:	E408260-	03	Prepared: 0	8/30/24 A	nalyzed: 08/31/24

250

20.0

101

80-120

0.0119

20

#### QC Summary Report Comment:

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



# **Definitions and Notes**

Earth Systems	Project Name:	RDX 28-11	
1910 Resource Ct	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/06/24 07:55

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



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	of

	Clie	nt Inforn	nation			Invoice Information					La	b Us	e Or	ily				T	AT		Stat	e
Client: E	arth Systems	R&R			Cor	mpany: WPX Energy Permia	1	La	ab V	NO#			Job	Num	ber		1D	2D	3D Std	NM	CO UT	TX
	lame: RDX 2				Add	dress: 5315 Buena Vista Dr		F	40	8	26		010			170			X	X		
	Aanager: Gilb		eno		City	, State, Zip: Carlsbad, NM 88:	220						-10						<del>1 1</del>			
	1910 Resou					one:			T	_			Ana	lvsis	and	Met	thod			EP	A Progra	am
	e, Zip: Carls		. 88220	)		ail: jim.raley@dvn.com		_												SDWA	CWA	RCRA
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Time Sampled	Date Sampled	Matrix	No. o Contain			Sample ID	Field	Lab Numb		DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg			Kemarks	
11:35	8/28/2024	S	1			HA-8		1			2				X					Incident #	: nAPP24	22545957
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	/																					
/							31															
	( ass		d authen	ticity of this samp	le. I am aware th	at tampering with or intentionally mislabe	ling the sa	imple loca	ation,	, date	or tim	ne of co	ollectio	on is co	nside	red fra	ud and	l may l	be grounds fo	r legal action		
	ed 6v: (Signatur	e)	C	late	Time	Received by: (Signature)	Date			Time					A 14 C. C. C.		C. 1500			st be received o		The state of the s
0	fano			B.29.24	08:00		8 8.3	9-24		0	80	0			sample	ed or re	eceived	packed	in ice at an avg	temp above 0 i	out less than	6°C on
	d by (Signatur	10	les	8.29.14	Time 40	Received by: (Signature)		29.1		Time	4	0			Rec	eive	d on	ice:	Lab Us			
1.3	ed by: (Signatur			3.19.W	<sup>™</sup> 23∞	Received by: (Signature)		30-20	-	_	500	0			<u>T1</u>				<u>T2</u>		<u>T3</u>	
Relinquish	ed by: (Signatur	e)	C	Date	Time	Received by: (Signature)	Date			Time					AVG	Ter	np °C	4				
Sample Mat	rix: S - Soil, Sd - S	olid, Sg - Slu	udge, A -	Aqueous, O - Oth	er	1	Con	tainer T	ype	: g - g	glass,	<b>p</b> - p	oly/p	lastic	, ag	amb	er gla	ass, v	- VOA			
						arrangements are made. Hazardous s														the analysis	of the ab	ove
						this COC. The liability of the laborator																





Printed: 8/30/2024 10:35:21AM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Earth Systems	Date Received:	08/30/24 0	5:00		Work Order ID:	E408264
Phone: 832-541-7719	Date Logged In:	08/29/24 1	6:49		Logged In By:	Noe Soto
Email: gmoreno@earthsys.net	Due Date:	09/06/24 1	7:00 (4 day TAT)			
Chain of Custody (COC)  1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location. 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times,		Yes Yes Yes Yes	Carrier: <u>C</u>	ourier		
5. Were all samples received within holding time?  Note: Analysis, such as pH which should be conduite, 15 minute hold time, are not included in this d	acted in the field,	Yes	F		<u>Comment</u>	s/Resolution
Sample Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TA	xT?	Yes				
Sample Cooler						
7. Was a sample cooler received?		Yes				
8. If yes, was cooler received in good condition?		Yes				
9. Was the sample(s) received intact, i.e., not broken?		Yes				
10. Were custody/security seals present?		No				
11. If yes, were custody/security seals intact?		NA				
12. Was the sample received on ice? If yes, the recorded temp Note: Thermal preservation is not required, if sam minutes of sampling	ples are received w/i 15	Yes				
13. If no visible ice, record the temperature. Actual s	ample temperature: 4°	<u>C</u>				
Sample Container		3.7				
14. Are aqueous VOC samples present?		No				
15. Are VOC samples collected in VOA Vials?	a)0	NA NA				
16. Is the head space less than 6-8 mm (pea sized or les	s)?					
17. Was a trip blank (TB) included for VOC analyses?		NA				
18. Are non-VOC samples collected in the correct cont		Yes				
19. Is the appropriate volume/weight or number of sample	containers collected?	Yes				
Field Label  20. Were field sample labels filled out with the minimu  Sample ID?	m information:	Yes				
Date/Time Collected? Collectors name?		Yes	-			
Sample Preservation		Yes				
21. Does the COC or field labels indicate the samples v	vere preserved?	No				
22. Are sample(s) correctly preserved?	F	NA				
24. Is lab filteration required and/or requested for disso	lved metals?	No				
Multiphase Sample Matrix						
26. Does the sample have more than one phase, i.e., mu	ltiphase?	No				
27. If yes, does the COC specify which phase(s) is to be	=	NA				
	<b>,</b>	1421				
Subcontract Laboratory	. 0	NT.				
<ul><li>28. Are samples required to get sent to a subcontract late</li><li>29. Was a subcontract laboratory specified by the client</li></ul>		No NA	Subcontract Lab	: NA		
Client Instruction						

Date

Report to:
Gilbert Moreno



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Earth Systems

Project Name: RDX 28-11

Work Order: E408263

Job Number: 01058-0007

Received: 8/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/6/24

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

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

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

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

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

Date Reported: 9/6/24

Gilbert Moreno 1910 Resource Ct Carlsbad, NM 88220

Project Name: RDX 28-11 Workorder: E408263

Date Received: 8/30/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/30/2024 6:00:00AM, under the Project Name: RDX 28-11.

The analytical test results summarized in this report with the Project Name: RDX 28-11 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

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## **Sample Summary**

Earth Systems	Project Name:	RDX 28-11	Donoutoda
1910 Resource Ct	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/06/24 07:49

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
HA-8 4	E408263-01A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.



# **Sample Data**

Earth Systems	Project Name:	RDX 28-11	
1910 Resource Ct	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/6/2024 7:49:03AM

### HA-8 4 E408263-01

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: BA		Batch: 2435115
Benzene	ND	0.0250		1	08/30/24	09/04/24	
Ethylbenzene	ND	0.0250		1	08/30/24	09/04/24	
Toluene	ND	0.0250		1	08/30/24	09/04/24	
o-Xylene	ND	0.0250		1	08/30/24	09/04/24	
p,m-Xylene	ND	0.0500		1	08/30/24	09/04/24	
Total Xylenes	ND	0.0250		1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene	·	91.7 %	70-130		08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130		08/30/24	09/04/24	
Surrogate: Toluene-d8		103 %	70-130		08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: BA		Batch: 2435115
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene		91.7 %	70-130		08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130		08/30/24	09/04/24	
Surrogate: Toluene-d8		103 %	70-130		08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2435117
Diesel Range Organics (C10-C28)	36.0	25.0		1	08/30/24	09/01/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/30/24	09/01/24	
Surrogate: n-Nonane		93.3 %	50-200		08/30/24	09/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: IY		Batch: 2435123
Chloride	217	20.0		1	08/30/24	08/31/24	



Earth Systems Project Name: RDX 28-11 Reported:
1910 Resource Ct Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 9/6/2024 7:49:03AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				9/6	/2024 7:49:03AN
	V	olatile Organ	ic Compo	unds by EI	PA 82601	В			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 (2435115-BLK1)							Prepared: 0	8/30/24 Analy	yzed: 09/03/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
LCS (2435115-BS1)							Prepared: 0	8/30/24 Analy	yzed: 09/03/24
Benzene	2.33	0.0250	2.50		93.3	70-130			
Ethylbenzene	2.37	0.0250	2.50		94.8	70-130			
Toluene	2.52	0.0250	2.50		101	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
p,m-Xylene	5.06	0.0500	5.00		101	70-130			
Total Xylenes	7.57	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
Matrix Spike (2435115-MS1)				Source:	E408264-	01	Prepared: 0	8/30/24 Anal	yzed: 09/03/24
Benzene	2.36	0.0250	2.50	ND	94.5	48-131	1	•	·
Ethylbenzene	2.38	0.0250	2.50	ND	95.1	45-135			
Toluene	2.52	0.0250	2.50	ND	101	48-130			
o-Xylene	2.54	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.64	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			
Matrix Spike Dup (2435115-MSD1)				Source:	E408264-	01	Prepared: 0	8/30/24 Analy	yzed: 09/03/24
Benzene	2.25	0.0250	2.50	ND	89.9	48-131	5.01	23	
Ethylbenzene	2.27	0.0250	2.50	ND	90.8	45-135	4.54	27	
Toluene	2.41	0.0250	2.50	ND	96.5	48-130	4.28	24	
o-Xylene	2.50	0.0250	2.50	ND	100	43-135	1.45	27	
p,m-Xylene	4.98	0.0500	5.00	ND	99.5	43-135	2.42	27	
Total Xylenes	7.48	0.0250	7.50	ND	99.7	43-135	2.10	27	
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
6	0.455		0.500		05.4	70 120			



0.500

0.500

95.4

103

70-130

70-130

0.477

0.515

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

Earth SystemsProject Name:RDX 28-11Reported:1910 Resource CtProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 7:49:03AM

Nonhalogenated	Organics by	v EPA 8015D	- GRO

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

	Result	Limit	LCVCI	Result	Nec	Lillits	ICI D	Lillin	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2435115-BLK1)							Prepared: 0	8/30/24	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
LCS (2435115-BS2)							Prepared: 0	8/30/24	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	39.7	20.0	50.0	<u> </u>	79.4	70-130		<u> </u>	
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.5	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			
Matrix Spike (2435115-MS2)				Source:	E408264-0	01	Prepared: 0	8/30/24	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.4	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.7	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			
Matrix Spike Dup (2435115-MSD2)				Source:	E408264-0	01	Prepared: 0	8/30/24	Analyzed: 09/03/24
Gasoline Range Organics (C6-C10)	38.5	20.0	50.0	ND	77.1	70-130	1.74	20	
	36.3	20.0							
Surrogate: Bromofluorobenzene	0.490	20.0	0.500		98.0	70-130			
		20.0	0.500 0.500		98.0 93.3	70-130 70-130			



# **QC Summary Data**

RDX 28-11 Earth Systems Project Name: Reported: 1910 Resource Ct Project Number: 01058-0007 Carlsbad NM, 88220 9/6/2024 7:49:03AM Project Manager: Gilbert Moreno

Carisbad NM, 88220		Project Manage	r: Gi	ibert Moreno	1				9/6/2024 /:49:03AN
	Nonha	logenated Or	ganics by l	EPA 8015I	D - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2435117-BLK1)							Prepared: 0	8/30/24 Ai	nalyzed: 09/01/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.2		50.0		96.5	50-200			
LCS (2435117-BS1)							Prepared: 0	8/30/24 A	nalyzed: 09/01/24
Diesel Range Organics (C10-C28)	230	25.0	250		92.0	38-132			
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			
Matrix Spike (2435117-MS1)				Source:	E408260-	02	Prepared: 0	8/30/24 A	nalyzed: 09/01/24
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.4	38-132			
Surrogate: n-Nonane	46.8		50.0		93.7	50-200			
Matrix Spike Dup (2435117-MSD1)				Source:	E408260-	02	Prepared: 0	8/30/24 A	nalyzed: 09/01/24
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.4	38-132	1.11	20	
Surrogate: n-Nonane	48.7		50.0		97.4	50-200			



Earth Systems		Project Name:		DX 28-11					Reported:
1910 Resource Ct Carlsbad NM, 88220		Project Number: Project Manager:		.058-0007 ilbert Moreno					9/6/2024 7:49:03AM
		Anions	by EPA 3	600.0/9056 <i>A</i>	<b>A</b>				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 (2435123-BLK1)							Prepared: 0	8/30/24 A	nalyzed: 08/31/24
Chloride	ND	20.0							
LCS (2435123-BS1)							Prepared: 0	8/30/24 A	nalyzed: 08/31/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2435123-MS1)				Source:	E408260-0	03	Prepared: 0	8/30/24 A	nalyzed: 08/31/24
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2435123-MSD1)				Source:	E408260-0	03	Prepared: 0	8/30/24 A	nalyzed: 08/31/24
Chloride	253	20.0	250	ND	101	80-120	0.0119	20	

#### QC Summary Report Comment:

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



## **Definitions and Notes**

ſ	Earth Systems	Project Name:	RDX 28-11	
l	1910 Resource Ct	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/06/24 07:49

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



1 1
of I

	Clie	nt Inform	nation			Invoice Information					La	b Us	se Or	nly				Т	AT			Stat	e
Client: E	arth System:	R&R			Cor	npany: WPX Energy Permia	1		Lab	WO#	ŧ		Job	Num	ber		1D	2D	3D	Std	NM	CO UT	TX
	lame: RDX 2					ress: 5315 Buena Vista Dr					24	.2		350		177	10	20	30	X	X		10
	Manager: Gill		eno			, State, Zip: Carlsbad, NM 88	220		-	LO C	1 600 14				, 0	~!		4	4	1			
	1910 Resou		CIIO			one:	-20					-	Ans	lysis	and	Mo	thod	-		-	F 6	A Progr	am
	e, Zip: Carls		99220					_		-			Alle	11 9 313	Tarru	IVIC	I		1		SDWA	CWA	RCRA
	832-541-77		00220			ail: jim.raley@dvn.com															SUVA	CVVA	NCNA
				_	WC	: TBD														1 1/2	0 11	I v	- L SI
Email:	gmoreno@e	artnsys.r	iet					_		015											Complian	ce Y	or N
										by 8		21	20	0.00	Σ	*	tals	Pkg			PWSID#		
				Sam	ple Informati	on			_	80	(#)	y 80	82	le 3(	Z	-500	Me	Anio				100 mm T	
Time Sampled	Date Sampled	Matrix	No. of Containe	s		Sample ID		Field Num		DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg				Remarks	
11:40	8/28/2024	S	1			HA-8		1			4				X						Incident #	t: nAPP24	22545957
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Addition	al Instructio	ner		1			1				10												
Addition	ai ilisti uctio	113.																					- 11
I, (field samp	/	validity and	i authenti	ity of this samp	le. I am aware tha	t tampering with or intentionally mislabe	ing the s	ample l	ocation	n, date	or tim	e of c	ollectio	on is co	nsider	ed fra	ud and	d may	be gro	unds fo	or legal action		
Relinguish	by: (Signature	2)	Da 8	29.24	Time OB:00	Received by: (Signature)	Pec X	29.2	4	Time	800	)			1,000		7				st be received temp above 0		
Relinquishe	ed by: (Signature	mark	Da		Time 1640	Received by: (Signature)	Date			Time		-			Rec	eive	don	ice:		ab Us	se Only		
	ed by: (Signatur		Da		12300	Received by: (Signature)	Date 8	30.2	2CI	Time	500				T1		retes	20.00	T2			ТЗ	
Relinquishe	ed by: (Signature	e)	Da		Time	Received by: (Signature)	Date			Time						Ten	np °C		Į.				
Sample Mat	rix: <b>S</b> - Soil, <b>Sd</b> - Se	olid, Sg - Slu	dge, A - A	ueous, O - Oth	er	· · · · · · · · · · · · · · · · · · ·	Cor	tainer	Туре	: g -	glass,	<b>p</b> - p	oly/p	lastic					- VO	A			-
Note: Sam	oles are discard	ed 14 days	after res	ults are report	ed unless other	arrangements are made. Hazardous s			_			_	_								the analysis	s of the ab	ove
samples is	applicable only	to those sa	mples re	ceived by the	laboratory with t	his COC. The liability of the laborator	is limit	ed to th	ne am	ount p	oaid fo	or on t	the re	port.									



Printed: 8/30/2024 10:29:39AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Earth Systems	Date Received:	08/30/24	06:00		Work Order ID:	E408263
Phone:	832-541-7719	Date Logged In:	08/29/24	16:47		Logged In By:	Raina Schwanz
Email:	gmoreno@earthsys.net	Due Date:		17:00 (4 day TAT)		66	
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
2. Does th	ne number of samples per sampling site location mat	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	_			
5. Were al	Il samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in					Comments	s/Resolution
C1- T	i.e, 15 minute hold time, are not included in this disucssion.	on.		1		<u>comment</u>	7/XCSOIUTION
	Urn Around Time (TAT)		Yes				
	COC indicate standard TAT, or Expedited TAT?		108				
Sample C	ample cooler received?		Yes				
	was cooler received:						
• •	S .		Yes				
	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling		Yes				
13. If no v	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
Sample C	Container						
	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers'	?	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab							
	— field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	ate/Time Collected?		Yes				
	ollectors name?		Yes				
-	reservation						
	the COC or field labels indicate the samples were pr	reserved?	No				
	ample(s) correctly preserved?	. 1.0	NA				
	filteration required and/or requested for dissolved m	netals?	No				
	se Sample Matrix						
	the sample have more than one phase, i.e., multipha		No				
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
28. Are sa	imples required to get sent to a subcontract laborator	ry?	No				
29. Was a	subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab	: NA		
Client In	<u>istruction</u>						
	<u> </u>						

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

Report to:
Gilbert Moreno



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Earth Systems

Project Name: RDX 28-11

Work Order: E408262

Job Number: 01058-0007

Received: 8/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/6/24

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

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

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

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

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

Date Reported: 9/6/24

Gilbert Moreno 1910 Resource Ct Carlsbad, NM 88220

Project Name: RDX 28-11 Workorder: E408262

Date Received: 8/30/2024 5:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/30/2024 5:00:00AM, under the Project Name: RDX 28-11.

The analytical test results summarized in this report with the Project Name: RDX 28-11 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

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## Sample Summary

Earth Systems	Project Name:	RDX 28-11	Reported:
1910 Resource Ct	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/06/24 10:35

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
HA-9 0.5	E408262-01A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-9 4	E408262-02A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-10 0.5	E408262-03A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-10 4	E408262-04A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-11 0.5	E408262-05A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-11 4	E408262-06A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-12 0.5	E408262-07A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-12 4	E408262-08A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-13 0.5	E408262-09A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-13 4	E408262-10A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-14 0.5	E408262-11A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
HA-14 4	E408262-12A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.

Earth Systems	Project Name:	RDX 28-11	
1910 Resource Ct	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/6/2024 10:35:40AM

### HA-9 0.5 E408262-01

		2100202 01					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2435118
Benzene	ND	0.0250		1	08/30/24	09/03/24	
Ethylbenzene	ND	0.0250		1	08/30/24	09/03/24	
Toluene	ND	0.0250		1	08/30/24	09/03/24	
o-Xylene	ND	0.0250		1	08/30/24	09/03/24	
p,m-Xylene	ND	0.0500		1	08/30/24	09/03/24	
Total Xylenes	ND	0.0250		1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		104 %	70-130		08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130		08/30/24	09/03/24	
Surrogate: Toluene-d8		98.0 %	70-130		08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2435118
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		104 %	70-130		08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130		08/30/24	09/03/24	
Surrogate: Toluene-d8		98.0 %	70-130		08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2435119
Diesel Range Organics (C10-C28)	ND	25.0		1	08/30/24	09/05/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/30/24	09/05/24	
Surrogate: n-Nonane		96.5 %	50-200		08/30/24	09/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: IY		Batch: 2435124
Chloride	ND	20.0		1	08/30/24	08/30/24	



Earth SystemsProject Name:RDX 28-111910 Resource CtProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 10:35:40AM

#### HA-9 4 E408262-02

		E400202-02					
A 14	D 1	Reporting			D 1		N. A
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: R	KS		Batch: 2435118
Benzene	ND	0.0250	1	ļ	08/30/24	09/03/24	
Ethylbenzene	ND	0.0250	1	!	08/30/24	09/03/24	
Toluene	ND	0.0250	1	l	08/30/24	09/03/24	
p-Xylene	ND	0.0250	1	Į.	08/30/24	09/03/24	
p,m-Xylene	ND	0.0500	1	Į.	08/30/24	09/03/24	
Total Xylenes	ND	0.0250	1	Į.	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130		08/30/24	09/03/24	
Surrogate: Toluene-d8		98.8 %	70-130		08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2435118	
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130		08/30/24	09/03/24	
Surrogate: Toluene-d8		98.8 %	70-130		08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: N	V		Batch: 2435119
Diesel Range Organics (C10-C28)	ND	25.0	1		08/30/24	09/05/24	_
Oil Range Organics (C28-C36)	ND	50.0	1	<u>.                                    </u>	08/30/24	09/05/24	
Surrogate: n-Nonane		98.4 %	50-200		08/30/24	09/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY	ď		Batch: 2435124
Chloride	ND	20.0	1		08/30/24	08/30/24	



Earth SystemsProject Name:RDX 28-111910 Resource CtProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 10:35:40AM

### HA-10 0.5 E408262-03

		1100202-05				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Analyte	Result	Limit	Dilui	ion Prepared	Anaiyzed	ivotes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2435118
Benzene	ND	0.0250	1	08/30/24	09/03/24	
Ethylbenzene	ND	0.0250	1	08/30/24	09/03/24	
Toluene	ND	0.0250	1	08/30/24	09/03/24	
p-Xylene	ND	0.0250	1	08/30/24	09/03/24	
p,m-Xylene	ND	0.0500	1	08/30/24	09/03/24	
Total Xylenes	ND	0.0250	1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		99.5 %	70-130	08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	08/30/24	09/03/24	
Surrogate: Toluene-d8		95.4 %	70-130	08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: RKS	Batch: 2435118	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		99.5 %	70-130	08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	08/30/24	09/03/24	
Surrogate: Toluene-d8		95.4 %	70-130	08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2435119
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/05/24	
Surrogate: n-Nonane		97.9 %	50-200	08/30/24	09/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: IY		Batch: 2435124
Chloride	ND	20.0	1	08/30/24	08/30/24	



 Earth Systems
 Project Name:
 RDX 28-11

 1910 Resource Ct
 Project Number:
 01058-0007
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Gilbert Moreno
 9/6/2024 10:35:40AM

#### HA-10 4 E408262-04

		E100202 01				
Analyte	Result	Reporting Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2435118
Benzene	ND	0.0250	1	08/30/24	09/03/24	
Ethylbenzene	ND	0.0250	1	08/30/24	09/03/24	
Toluene	ND	0.0250	1	08/30/24	09/03/24	
o-Xylene	ND	0.0250	1	08/30/24	09/03/24	
p,m-Xylene	ND	0.0500	1	08/30/24	09/03/24	
Total Xylenes	ND	0.0250	1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	08/30/24	09/03/24	
Surrogate: Toluene-d8		97.9 %	70-130	08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2435118
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	08/30/24	09/03/24	
Surrogate: Toluene-d8		97.9 %	70-130	08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2435119
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/05/24	
Surrogate: n-Nonane		95.0 %	50-200	08/30/24	09/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: IY		Batch: 2435124
Chloride	ND	20.0	1	08/30/24	08/30/24	_

Earth SystemsProject Name:RDX 28-111910 Resource CtProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 10:35:40AM

### HA-11 0.5 E408262-05

		E100202 00				
Analyte	Result	Reporting Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2435118
Benzene	ND	0.0250	1	08/30/24	09/03/24	
Ethylbenzene	ND	0.0250	1	08/30/24	09/03/24	
Toluene	ND	0.0250	1	08/30/24	09/03/24	
o-Xylene	ND	0.0250	1	08/30/24	09/03/24	
p,m-Xylene	ND	0.0500	1	08/30/24	09/03/24	
Total Xylenes	ND	0.0250	1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	08/30/24	09/03/24	
Surrogate: Toluene-d8		98.0 %	70-130	08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2435118
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	08/30/24	09/03/24	
Surrogate: Toluene-d8		98.0 %	70-130	08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2435119
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/05/24	
Surrogate: n-Nonane		95.5 %	50-200	08/30/24	09/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: IY		Batch: 2435124
Chloride	ND	20.0	1	08/30/24	08/30/24	

Earth SystemsProject Name:RDX 28-111910 Resource CtProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 10:35:40AM

#### HA-11 4 E408262-06

Reporting Limit					
Limit			ъ .		37.
	Dilı	ution	Prepared	Analyzed	Notes
mg/kg		Analyst:	RKS		Batch: 2435118
0.0250		1	08/30/24	09/03/24	
0.0250		1	08/30/24	09/03/24	
0.0250		1	08/30/24	09/03/24	
0.0250		1	08/30/24	09/03/24	
0.0500		1	08/30/24	09/03/24	
0.0250		1	08/30/24	09/03/24	
103 %	70-130		08/30/24	09/03/24	
96.8 %	70-130		08/30/24	09/03/24	
95.1 %	70-130		08/30/24	09/03/24	
mg/kg		Analyst: RKS		Batch: 2435118	
20.0		1	08/30/24	09/03/24	
103 %	70-130		08/30/24	09/03/24	
96.8 %	70-130		08/30/24	09/03/24	
95.1 %	70-130		08/30/24	09/03/24	
mg/kg		Analyst:	NV		Batch: 2435119
25.0		1	08/30/24	09/05/24	
50.0		1	08/30/24	09/05/24	
97.5 %	50-200		08/30/24	09/05/24	
mg/kg		Analyst:	IY		Batch: 2435124
20.0		1	08/30/24	08/30/24	
	0.0250 0.0250 0.0250 0.0250 0.0250 0.0500 0.0250  103 % 96.8 % 95.1 %  mg/kg 20.0  103 % 96.8 % 95.1 %  mg/kg 25.0 50.0	0.0250 0.0250 0.0250 0.0250 0.0500 0.0250 103 % 70-130 95.1 % 70-130 mg/kg 20.0  103 % 70-130 95.1 % 70-130 95.1 % 70-130 97.5 % 50-200 mg/kg	0.0250 1 0.0250 1 0.0250 1 0.0250 1 0.0250 1 0.0500 1 0.0250 1 103 % 70-130 96.8 % 70-130 95.1 % 70-130  mg/kg Analyst: 20.0 1 103 % 70-130 96.8 % 70-130 95.1 % 70-130 96.8 % 70-130 97.5 % 50-200 mg/kg Analyst:	0.0250	0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0500 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/03/24 0.0250 1 08/30/24 09/05/24 0.0250 1 08/30/24 09/05/24 0.0250 1 08/30/24 09/05/24 0.0250 1 08/30/24 09/05/24 0.0250 08/30/24 09/05/24 0.0250 08/30/24 09/05/24 0.0250 08/30/24 09/05/24 0.0250 08/30/24 09/05/24 0.0250 08/30/24 09/05/24 0.0250 08/30/24 09/05/24 0.0250 08/30/24 09/05/24 0.0250 08/30/24 09/05/24



Earth Systems	Project Name:	RDX 28-11	
1910 Resource Ct	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/6/2024 10:35:40AM

### HA-12 0.5 E408262-07

Analyte	Result	Reporting Limit	Dilut	tion Prepa	ared Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2435118
Benzene	ND	0.0250	1	08/30	09/03/24	
Ethylbenzene	ND	0.0250	1	08/30	09/03/24	
Toluene	ND	0.0250	1	08/30	09/03/24	
o-Xylene	ND	0.0250	1	08/30	09/03/24	
p,m-Xylene	ND	0.0500	1	08/30	09/03/24	
Total Xylenes	ND	0.0250	1	08/30	0/24 09/03/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/30	0/24 09/03/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	08/30	0/24 09/03/24	
Surrogate: Toluene-d8		98.1 %	70-130	08/30	0/24 09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2435118
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30	09/03/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/30	0/24 09/03/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	08/30	09/03/24	
Surrogate: Toluene-d8		98.1 %	70-130	08/30	0/24 09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2435119
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30	0/24 09/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30	09/05/24	
Surrogate: n-Nonane		93.5 %	50-200	08/30	0/24 09/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: IY		Batch: 2435124
Chloride	ND	20.0	1	08/30	0/24 08/30/24	



Earth SystemsProject Name:RDX 28-111910 Resource CtProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 10:35:40AM

#### HA-12 4 E408262-08

		E400202-00					
Andre	Dl4	Reporting	Dilut	4:	D 1	Analama I	Nata
Analyte	Result	Limit	Dilui	uon l	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS	S		Batch: 2435118
Benzene	ND	0.0250	1	. (	08/30/24	09/03/24	
Ethylbenzene	ND	0.0250	1	. (	08/30/24	09/03/24	
Toluene	ND	0.0250	1	. (	08/30/24	09/03/24	
o-Xylene	ND	0.0250	1	. (	08/30/24	09/03/24	
p,m-Xylene	ND	0.0500	1	. (	08/30/24	09/03/24	
Total Xylenes	ND	0.0250	1	. (	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		102 %	70-130	(	08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	(	08/30/24	09/03/24	
Surrogate: Toluene-d8		98.1 %	70-130	(	08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: RKS		Batch: 2435118	
Gasoline Range Organics (C6-C10)	ND	20.0	1	. (	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		102 %	70-130	(	08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	(	08/30/24	09/03/24	
Surrogate: Toluene-d8		98.1 %	70-130	(	08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: NV			Batch: 2435119
Diesel Range Organics (C10-C28)	ND	25.0	1	. (	08/30/24	09/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1		08/30/24	09/05/24	
Surrogate: n-Nonane		95.3 %	50-200	(	08/30/24	09/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: IY			Batch: 2435124
Chloride	ND	20.0	1	. (	08/30/24	08/30/24	



Earth SystemsProject Name:RDX 28-111910 Resource CtProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 10:35:40AM

### HA-13 0.5 E408262-09

		Reporting				
Analyte	Result	Limit	Dilut	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS	Batch: 2435118	
Benzene	ND	0.0250	1	08/30/24	09/03/24	
Ethylbenzene	ND	0.0250	1	08/30/24	09/03/24	
Toluene	ND	0.0250	1	08/30/24	09/03/24	
o-Xylene	ND	0.0250	1	08/30/24	09/03/24	
p,m-Xylene	ND	0.0500	1	08/30/24	09/03/24	
Total Xylenes	ND	0.0250	1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		100 %	70-130	08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130	08/30/24	09/03/24	
Surrogate: Toluene-d8		97.5 %	70-130	08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	P	Analyst: RKS		Batch: 2435118
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		100 %	70-130	08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130	08/30/24	09/03/24	
Surrogate: Toluene-d8		97.5 %	70-130	08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2435119
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/05/24	
Surrogate: n-Nonane		94.0 %	50-200	08/30/24	09/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: IY		Batch: 2435124
Chloride	ND	20.0	1	08/30/24	08/30/24	



Earth SystemsProject Name:RDX 28-111910 Resource CtProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 10:35:40AM

#### HA-13 4 E408262-10

		E:00202 10				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ai	nalyst: RKS		Batch: 2435118
Benzene	ND	0.0250	1	08/30/24	09/03/24	
Ethylbenzene	ND	0.0250	1	08/30/24	09/03/24	
Toluene	ND	0.0250	1	08/30/24	09/03/24	
o-Xylene	ND	0.0250	1	08/30/24	09/03/24	
p,m-Xylene	ND	0.0500	1	08/30/24	09/03/24	
Total Xylenes	ND	0.0250	1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		99.0 %	70-130	08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	08/30/24	09/03/24	
Surrogate: Toluene-d8		97.6 %	70-130	08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2435118
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		99.0 %	70-130	08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	08/30/24	09/03/24	
Surrogate: Toluene-d8		97.6 %	70-130	08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ai	nalyst: NV		Batch: 2435119
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/06/24	
Surrogate: n-Nonane		89.9 %	50-200	08/30/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ai	nalyst: IY		Batch: 2435124
Chloride	ND	20.0	1	08/30/24	08/30/24	

 Earth Systems
 Project Name:
 RDX 28-11

 1910 Resource Ct
 Project Number:
 01058-0007
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Gilbert Moreno
 9/6/2024 10:35:40AM

#### HA-14 0.5 E408262-11

		E400202-11					
	_	Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2435118
Benzene	ND	0.0250		1	08/30/24	09/03/24	
Ethylbenzene	ND	0.0250		1	08/30/24	09/03/24	
Toluene	ND	0.0250		1	08/30/24	09/03/24	
o-Xylene	ND	0.0250		1	08/30/24	09/03/24	
p,m-Xylene	ND	0.0500		1	08/30/24	09/03/24	
Total Xylenes	ND	0.0250		1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		08/30/24	09/03/24	
Surrogate: Toluene-d8		96.7 %	70-130		08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2435118
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		08/30/24	09/03/24	
Surrogate: Toluene-d8		96.7 %	70-130		08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2435119
Diesel Range Organics (C10-C28)	ND	25.0		1	08/30/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/30/24	09/06/24	
Surrogate: n-Nonane		95.5 %	50-200		08/30/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: IY		Batch: 2435124
Chloride	ND	20.0		1	08/30/24	08/30/24	



Earth Systems	Project Name:	RDX 28-11	
1910 Resource Ct	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/6/2024 10:35:40AM

## HA-14 4

		E408262-12					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2435118
Benzene	ND	0.0250	1	1	08/30/24	09/03/24	
Ethylbenzene	ND	0.0250	1	[	08/30/24	09/03/24	
Toluene	ND	0.0250	1	[	08/30/24	09/03/24	
o-Xylene	ND	0.0250	1	[	08/30/24	09/03/24	
p,m-Xylene	ND	0.0500	1	l	08/30/24	09/03/24	
Total Xylenes	ND	0.0250	1	l	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		100 %	70-130		08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130		08/30/24	09/03/24	
Surrogate: Toluene-d8		95.1 %	70-130		08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2435118
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/30/24	09/03/24	
Surrogate: Bromofluorobenzene		100 %	70-130		08/30/24	09/03/24	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130		08/30/24	09/03/24	
Surrogate: Toluene-d8		95.1 %	70-130		08/30/24	09/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2435119
Diesel Range Organics (C10-C28)	ND	25.0	1		08/30/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	l	08/30/24	09/06/24	
Surrogate: n-Nonane		96.2 %	50-200		08/30/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2435124
Chloride	ND	20.0	1	<u> </u>	08/30/24	08/30/24	•



Earth Systems Project Name: RDX 28-11 Reported:
1910 Resource Ct Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 9/6/2024 10:35:40AM

	V	olatile Organ	ic Comnoi	unds by El	PA 82601	В			analyst: RKS
									maryst: KKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2435118-BLK1)							Prepared: 0	8/30/24 Analy	zed: 09/03/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.4	70-130			
LCS (2435118-BS1)							Prepared: 0	8/30/24 Analy	zed: 09/03/24
Benzene	2.38	0.0250	2.50		95.0	70-130			
Ethylbenzene	2.33	0.0250	2.50		93.2	70-130			
Toluene	2.21	0.0250	2.50		88.4	70-130			
o-Xylene	2.29	0.0250	2.50		91.6	70-130			
p,m-Xylene	4.58	0.0500	5.00		91.7	70-130			
Total Xylenes	6.87	0.0250	7.50		91.6	70-130			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.1	70-130			
Matrix Spike (2435118-MS1)				Source:	E408262-	06	Prepared: 0	8/30/24 Analy	zed: 09/03/24
Benzene	2.50	0.0250	2.50	ND	100	48-131			
Ethylbenzene	2.45	0.0250	2.50	ND	98.2	45-135			
Toluene	2.33	0.0250	2.50	ND	93.2	48-130			
o-Xylene	2.47	0.0250	2.50	ND	99.0	43-135			
p,m-Xylene	4.95	0.0500	5.00	ND	99.0	43-135			
Total Xylenes	7.42	0.0250	7.50	ND	99.0	43-135			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.3	70-130			
Matrix Spike Dup (2435118-MSD1)				Source:	E408262-	06	Prepared: 0	8/30/24 Analy	zed: 09/03/24
Benzene	2.44	0.0250	2.50	ND	97.5	48-131	2.63	23	
Ethylbenzene	2.42	0.0250	2.50	ND	96.9	45-135	1.31	27	
Toluene	2.28	0.0250	2.50	ND	91.1	48-130	2.30	24	
o-Xylene	2.42	0.0250	2.50	ND	96.7	43-135	2.33	27	
p,m-Xylene	4.84	0.0500	5.00	ND	96.8	43-135	2.27	27	
Total Xylenes	7.26	0.0250	7.50	ND	96.7	43-135	2.29	27	
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
			0.500		00 (	E0 130			



0.500

0.500

99.4

98.1

70-130

70-130

0.497

0.491

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

Earth SystemsProject Name:RDX 28-11Reported:1910 Resource CtProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno9/6/2024 10:35:40AM

Nonhalogenated	l Organics h	v EPA	8015D -	CRO

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

	Result	LIIIII	Level	Result	Rec	Limits	KrD	LIIIII	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2435118-BLK1)							Prepared: 08	8/30/24 A1	nalyzed: 09/03/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.4	70-130			
LCS (2435118-BS2)							Prepared: 08	8/30/24 Aı	nalyzed: 09/03/24
Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	·	90.7	70-130		·	·
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.7	70-130			
Matrix Spike (2435118-MS2)				Source:	E408262-0	06	Prepared: 08	8/30/24 Aı	nalyzed: 09/03/24
Gasoline Range Organics (C6-C10)	43.3	20.0	50.0	ND	86.6	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.4	70-130			
Matrix Spike Dup (2435118-MSD2)				Source:	E408262-0	06	Prepared: 08	8/30/24 Aı	nalyzed: 09/03/24
Gasoline Range Organics (C6-C10)	40.3	20.0	50.0	ND	80.6	70-130	7.22	20	
					104	70-130			
Surrogate: Bromofluorobenzene	0.520		0.500		104	/0-130			
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4	0.520 0.481		0.500 0.500		96.1	70-130 70-130			



Earth Systems Project Name: RDX 28-11 Reported:
1910 Resource Ct Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Gilbert Moreno 9/6/2024 10:35:40AM

Carlsbad NM, 88220		Project Manage	r: Gı	lbert Moreno				9/6	5/2024 10:35:40AN
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2435119-BLK1)							Prepared: 0	8/30/24 Anal	yzed: 09/05/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.1		50.0		94.1	50-200			
LCS (2435119-BS1)							Prepared: 0	8/30/24 Anal	yzed: 09/05/24
Diesel Range Organics (C10-C28)	240	25.0	250		95.9	38-132			
Surrogate: n-Nonane	52.7		50.0		105	50-200			
Matrix Spike (2435119-MS1)				Source:	E408262-	01	Prepared: 0	8/30/24 Anal	yzed: 09/05/24
Diesel Range Organics (C10-C28)	222	25.0	250	ND	88.8	38-132			
Surrogate: n-Nonane	49.1		50.0		98.2	50-200			
Matrix Spike Dup (2435119-MSD1)				Source:	E408262-	01	Prepared: 0	8/30/24 Anal	yzed: 09/05/24
Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.1	38-132	2.49	20	
Surrogate: n-Nonane	47.2		50.0		94.4	50-200			



Chloride

## **QC Summary Data**

Earth Systems		Project Name:	•					Reported:					
1910 Resource Ct Carlsbad NM, 88220		Project Number: Project Manager	Project Number: 01058-0007 Project Manager: Gilbert Moreno						9/6/2024 10:35:40AM				
		Anions	by EPA 3	00.0/9056	1				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 (2435124-BLK1)							Prepared: 0	8/30/24 Aı	nalyzed: 08/30/24				
Chloride	ND	20.0											
LCS (2435124-BS1)							Prepared: 0	8/30/24 Aı	nalyzed: 08/30/24				
Chloride	252	20.0	250		101	90-110							
Matrix Spike (2435124-MS1)				Source:	Source: E408262-02 Pr		Prepared: 0	8/30/24 Aı	nalyzed: 08/30/24				
Chloride	254	20.0	250	ND	102	80-120							
Matrix Spike Dup (2435124-MSD1)				Source:	E408262-	02	Prepared: 0	8/30/24 Aı	nalyzed: 08/30/24				

250

20.0

ND

102

80-120

0.132

#### QC Summary Report Comment:

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



# **Definitions and Notes**

Earth Systems	Project Name:	RDX 28-11	
1910 Resource Ct	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/06/24 10:35

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client Information				Invoice Informatio	n				Lab U	se O	nly				T	AT	State				
Client: E	arth System	s R & R			Co	mpany: WPX Energy Perm	ian	1:	ab WC	0#		dot	Num	ber		10	20	3D Std	NN	A CO UT	TX
	lame: RDX 2				Ad	dress: 5315 Buena Vista Dr			40		102		058		27	-	-	X	X		
	Aanager: Gil		eno			y, State, Zip: Carlsbad, NM 8	88220	-		U.S.	-	100	W.20								
	1910 Resou		CIIO		1000	one:	OLLO				-	An	Analysis and Method						EPA Program		
	te, Zip: Carls		88220			ail: jim.raley@dvn.com	-:0		-		T	T	Third your and the				Γ-		SDWA		RCRA
-	832-541-77		OUZZU			D: TBD		_											30 117	CVIA	Henry
	gmoreno@e		not		\vv	): IBD													Complia	nce Y	or N
Lillall.	ginorenowe	ai 111343.1	ict	_					015								ps.		PWSID :		TOLLIA
-				Cam	ula lufaumat				- A	5	321	09	00.0	Σ	×	etals	n Pk		F VV3ID	1	
				Sam	ple Informat	on		J	280	3	3 A	y 82	de 3		500	2	Anio			Remark	
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lab Numb	10	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg			Kemark	S
11:50	8/28/2024	S	1			HA-9		1		0.	5			X					Incident	:#: nAPP24	122545957
12:00	8/28/2024	S	1			HA-9		2		4				1							
12:10	8/28/2024	S	1			HA-10		3		0.	5										
12:20	8/28/2024	S	1			HA-10		4		4											
12:30	8/28/2024	S	1			HA-11				0.	5										
12:40	8/28/2024	S	1							4											
12:50	8/28/2024	S	1			HA-12		7		0.	5										
13:00	8/28/2024	S	1			HA-12		8		4											
13:10	8/28/2024	S	1			HA-13		9		0.	5			1							
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Addition	al Instruction	ns:									-1					-					
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	by: (Signatur	e)	Dat	29.24	Time 08:00	Received by: (Signature)	lee Date	1.292	4 I	ne OXC	00			sample	ed or re	eceived		reservation mu in ice at an avg			
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Project Name: RDX 28-11				Address: 5315 Buena Vista Dr									)		X				
	Manager: Gill		eno		Cit	y, State, Zip: Carlsbad, NM 8	8220												
	: 1910 Resou		4.466.6			Phone:						Analysis and Met			thod				EPA Program
	te, Zip: Carls		88220			Email: jim.raley@dvn.com												SD	WA CWA RCRA
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Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lab Numb		Depth (ft)	BTEX by 8021	VOC by 8260	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg			State  NM CO UT TX  X
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(field sam	pler), attest to the	validity and	d authenticity	of this sample	e. I am aware th	at tampering with or intentionally misla	beling the s	ample loca	ation, dat	or tim	e of co	llection is	conside	ered fra	ud and	may b	e grounds	for lega	al action.
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	ed by: (Signatur		B.	29.24	08:00	Received by: (Signature)	les 8	29.2	Time	800	)		samp		celved		n ice at an i	avg temp	eceived on ice the day they are above 0 but less than 6 °C on
VVIic	ed by: (Signatur	onga	les Date	29.24	1640	Received by: (Signature)	Bate	.29.1	Ly Time	64	0		Red	ceive	d on i	ce:	Lab (Y)/	Use O	nly
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Printed: 8/30/2024 10:24:12AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

	Client:	Earth Systems	Date Received:	08/30/24	05:00	Work Order ID:	E408262
Chain of Custody (COC)  1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC yes 3. Were samples dropped of ID yelien to carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within wheth should be conducted in the field, i.e. is I mainter hold it man, ear on ticuloid in this disuession.  Sample Turn Around Time (TAT) 6. Sample COol error (Course) 7. Was a sample cooler received in good condition? 8. Hyse, was cooler received in good condition? 9. Was the sample (Soer received induct, i.e., not broken? 10. Were custody/security seals infact? 11. Hyse, were custody/security seals infact? 12. Was the sample received in set, i.e., not broken? 13. If no visible is, e., production is of required, if samples are received win 15 minutes of sampling 13. If no visible is, e., product of the sample sample temperature: 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6.8 mm (pas sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume weight or number of sample containers? 21. Dues the COC or field labels indicate the sample were preserved? 22. Are sample Collected? 23. Are sample for or field labels indicate the samples were preserved? 24. Is also filteration required and/or requested for dissolved metals? 25. Are sample for or field labels indicate the samples were preserved? 26. Does the COC or field labels indicate the samples were preserved? 27. Are sampled nor required and/or requested for dissolved metals? 28. Are samples required to get sent to a subcontract laboratory? 29. Was a subcontract laboratory specified by the client and if so who? 29. Was a subcontract laboratory specified by the client and if so who? 29. Was a subcontract laboratory	Phone:	832-541-7719	Date Logged In:	08/29/24	16:42	Logged In By:	Raina Schwanz
1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 3. Were samples to force the number of samples per sampling site location match the COC 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses?  New ear all samples received within holding times?  New a la samples received within holding times?  Yes Note: Analysis, such as pH which should be conducted in the field, i.e. Is time hold time, are not included in this discussion.  Sample Turn Around Time (TAT)  5. Sample Turn Around Time (TAT) 6. Sample Cooler received? 7. Was a sample cooler received? 8. Kiyes, was cooler received? 9. Was the sample (s) received intact, i.e., not broken? 9. Was the sample colorer received in good condition? 9. Was the sample colorer received in an or cogniced, if samples are received will 15 minutes of sampling 11. Kiyes, were custody/security seals intate? 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°2°C Note: Thermal preservation is not required, if samples are received will 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature:  4°C  Note: Thermal preservation is not required, if samples are received will 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature:  4°C  Note: Thermal preservation in the complex of the complex of the preservation in the complex of the complex of the temperature.  14. Are aqueous VOC samples collected in VOC analyses?  Note: The provided of the complex of	Email:	gmoreno@earthsys.net	Due Date:	09/06/24	17:00 (4 day TAT)		
1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 3. Were samples to force the number of samples per sampling site location match the COC 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses?  New ear all samples received within holding times?  New a la samples received within holding times?  Yes Note: Analysis, such as pH which should be conducted in the field, i.e. Is time hold time, are not included in this discussion.  Sample Turn Around Time (TAT)  5. Sample Turn Around Time (TAT) 6. Sample Cooler received? 7. Was a sample cooler received? 8. Kiyes, was cooler received? 9. Was the sample (s) received intact, i.e., not broken? 9. Was the sample colorer received in good condition? 9. Was the sample colorer received in an or cogniced, if samples are received will 15 minutes of sampling 11. Kiyes, were custody/security seals intate? 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°2°C Note: Thermal preservation is not required, if samples are received will 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature:  4°C  Note: Thermal preservation is not required, if samples are received will 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature:  4°C  Note: Thermal preservation in the complex of the complex of the preservation in the complex of the complex of the temperature.  14. Are aqueous VOC samples collected in VOC analyses?  Note: The provided of the complex of							
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4. Was the COC complete, i.e., signatures, datest limes, requested analyses?  5. Were all samples received within holding time?  5. Were all samples received within holding time?  5. Brainate hold time, are not included in this discussion.  5. Samble Turn Arrow Illine (TAX)  6. Did the COC indicate standard TAT, or Expedited TAT?  7. Was a sample cooler received?  7. Was a sample cooler received?  8. If yes, was cooler received in good condition?  9. Was the sample(s) received intact, i.e., not broken?  10. Were custody/security seals present?  11. If yes, were custody/security seals intact?  12. Was the sample received mit good the part of the part of the part of samples are received with 15 minutes of sampling  13. If no visible ice, record the temperature. Actual sample temperature: 4°C  5. Sample Container  14. Are aqueous VOC samples present?  15. Are VOC samples collected in VOA Vinls?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip bank (TD) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Sample Correct on the field and the minimum information:  5. Sample ID?  10. Sample Correct on the temperature of sample containers?  10. Sample Droportiate volume/weight or number of sample containers?  10. Sample Droportiate volume/weight or number of sample containers collected?  10. Sample Droportiate volume/weight or number of sample containers collected?  11. Sample Preservation  12. Does the COC or field labels indicate the samples were preserved?  12. Does the COC or field solds indicate the samples were preserved?  23. Is also filteration required and/or requested for dissolved metals?  24. Is lab filteration required and/or requested for dissolved metals?  25. Does the sample Marrix  26. Does the sample Marrix  26. Does the sample have more than one phase, i.e., multiphase?  27.			tch the COC	Yes			
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10. Were custody/security seals present?  11. If yes, were custody/security seals intact?  12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Themal preservation is not required, if samples are received wii 15 minutes of sampling  13. If no visible ice, record the temperature. Actual sample temperature: 4°C  Sample Container  14. Are aqueous VOC samples present?  15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip blank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  20. Were field sample labels filled out with the minimum information: Sample ID? Date/Time Collected? Collectors name?  21. Does the COC or field labels indicate the samples were preserved? 22. Are sample(s) correctly preserved?  23. Ans sample(s) correctly preserved?  24. Is lab filteration required and/or requested for dissolved metals?  Multiphase Sample Matrix  25. Does the COC specify which phase(s) is to be analyzed?  26. Does the COC specify which phase(s) is to be analyzed?  27. If yes, does the COC specify which phase(s) is to be analyzed?  28. Are samples required to get sent to a subcontract laboratory?  29. Was a subcontract Laboratory specified by the client and if so who?  NA Subcontract Lab: NA	9. Was th	e sample(s) received intact, i.e., not broken?		Ves			
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Report to:
Gilbert Moreno



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Earth Systems

Project Name: RDX 28-11

Work Order: E409188

Job Number: 01058-0007

Received: 9/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/27/24

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

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

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

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

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

Date Reported: 9/27/24

Gilbert Moreno 1910 Resource Ct Carlsbad, NM 88220

Project Name: RDX 28-11 Workorder: E409188

Date Received: 9/23/2024 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/23/2024 5:30:00AM, under the Project Name: RDX 28-11.

The analytical test results summarized in this report with the Project Name: RDX 28-11 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

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Raina Schwanz

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## Sample Summary

Earth Systems	Project Name:	RDX 28-11	Reported:
1910 Resource Ct	Project Number:	01058-0007	Reporteu:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/27/24 18:08

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-1 - 1'	E409188-01A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
CS-2 - 1'	E409188-02A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
CS-3 - 1'	E409188-03A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
CS-4 - 1'	E409188-04A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
CS-5 - 1'	E409188-05A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
CS-6 - 1'	E409188-06A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
CS-7 - 1'	E409188-07A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
CS-8 - 1'	E409188-08A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
CS-9 - 1'	E409188-09A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
CS-10 - 1'	E409188-10A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
CS-11 - 1'	E409188-11A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
SW-1 -0 - 1'	E409188-12A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
SW-2 -0 - 1'	E409188-13A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
SW-3 -0 - 1'	E409188-14A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.
SW-4 -0 - 1'	E409188-15A	Soil	09/19/24	09/23/24	Glass Jar, 2 oz.

 Earth Systems
 Project Name:
 RDX 28-11

 1910 Resource Ct
 Project Number:
 01058-0007
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Gilbert Moreno
 9/27/2024 6:08:18PM

## CS-1 - 1' E409188-01

Result	Reporting Limit		tion	Prepared	Analyzed	Notes
mg/kg	mg/kg		Analyst:	•		Batch: 2439002
		1	 I	09/23/24	09/27/24	
ND	0.0250	1	l	09/23/24	09/27/24	
ND	0.0250	1	l	09/23/24	09/27/24	
ND	0.0250	1	l	09/23/24	09/27/24	
ND	0.0500	1	l	09/23/24	09/27/24	
ND	0.0250	1	l	09/23/24	09/27/24	
	98.5 %	70-130		09/23/24	09/27/24	
	99.1 %	70-130		09/23/24	09/27/24	
	100 %	70-130		09/23/24	09/27/24	
mg/kg	mg/kg		Analyst:	IY		Batch: 2439002
ND	20.0	1	Į	09/23/24	09/27/24	
	98.5 %	70-130		09/23/24	09/27/24	
	99.1 %	70-130		09/23/24	09/27/24	
	100 %	70-130		09/23/24	09/27/24	
mg/kg	mg/kg		Analyst:	AF		Batch: 2438162
ND	25.0	1	1	09/21/24	09/26/24	_
ND	50.0	1	l	09/21/24	09/26/24	
	115 %	50-200		09/21/24	09/26/24	
mg/kg	mg/kg		Analyst:	DT		Batch: 2439013
1180	200	10	0	09/23/24	09/23/24	_
	mg/kg ND Mg/kg ND Mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           98.5 %         99.1 %           100 %         100 %           mg/kg         mg/kg           ND         20.0           98.5 %         99.1 %           100 %         100 %           mg/kg         mg/kg           ND         25.0           ND         50.0           115 %         mg/kg	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           98.5 %         70-130           99.1 %         70-130           100 %         70-130           99.1 %         70-130           99.1 %         70-130           99.1 %         70-130           100 %         70-130           mg/kg         mg/kg           ND         25.0           ND         50.0           115 %         50-200           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Analyst:           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         70-130         1           99.1 %         70-130         70-130           mg/kg         mg/kg         Analyst:           ND         20.0         1           99.1 %         70-130         70-130           mg/kg         mg/kg         Analyst:           ND         25.0         1           ND         50.0         1           115 %         50-200           mg/kg         Mg/kg         Analyst:	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         09/23/24           ND         0.0250         1         09/23/24           ND         0.0250         1         09/23/24           ND         0.0250         1         09/23/24           ND         0.0500         1         09/23/24           ND         0.0250         1         09/23/24           ND         0.0250         1         09/23/24           99.1 %         70-130         09/23/24           99.1 %         70-130         09/23/24           100 %         70-130         09/23/24           99.1 %         70-130         09/23/24           99.1 %         70-130         09/23/24           100 %         70-130         09/23/24           100 %         70-130         09/23/24           100 %         70-130         09/23/24           100 %         70-130         09/23/24           ND         25.0         1         09/21/24           ND         50.0         1         09/21/24           ND	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         09/23/24         09/27/24           ND         0.0500         1         09/23/24         09/27/24           ND         0.0250         1         09/23/24         09/27/24           ND         0.0250         1         09/23/24         09/27/24           98.5 %         70-130         09/23/24         09/27/24           99.1 %         70-130         09/23/24         09/27/24           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         09/23/24         09/27/24           99.1 %         70-130         09/23/24         09/27/24           99.1 %         70-130         09/23/24         09/27/24           99.1 %         70-130         09/23/24         09/27/24           99.1 %         70



 Earth Systems
 Project Name:
 RDX 28-11

 1910 Resource Ct
 Project Number:
 01058-0007
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 Carlsbad NM, 88220
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CS-2 - 1'

		E409188-02					
		Reporting					
Analyte	Result	Limit	Dilut	tion Pr	epared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY	Batch: 2439002		
Benzene	ND	0.0250	1	09	/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09	/23/24	09/27/24	
Toluene	ND	0.0250	1	09	/23/24	09/27/24	
o-Xylene	ND	0.0250	1	09	/23/24	09/27/24	
p,m-Xylene	ND	0.0500	1	09	/23/24	09/27/24	
Total Xylenes	ND	0.0250	1	09	/23/24	09/27/24	
Surrogate: Bromofluorobenzene		98.8 %	70-130	09	/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	09	/23/24	09/27/24	
Surrogate: Toluene-d8		100 %	70-130	09	/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY			Batch: 2439002
Gasoline Range Organics (C6-C10)	ND	20.0	1	09	/23/24	09/27/24	
Surrogate: Bromofluorobenzene		98.8 %	70-130	09	/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	09	/23/24	09/27/24	
Surrogate: Toluene-d8		100 %	70-130	09	/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: AF			Batch: 2438162
Diesel Range Organics (C10-C28)	ND	25.0	1	09	/21/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09	/21/24	09/26/24	
Surrogate: n-Nonane		106 %	50-200	09	/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT			Batch: 2439013
Chloride	3900	200	10	) 09	/23/24	09/23/24	



 Earth Systems
 Project Name:
 RDX 28-11

 1910 Resource Ct
 Project Number:
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 Reported:

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 Project Manager:
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CS-3 - 1'

		E409188-03				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2439002
Benzene	ND	0.0250	1	09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/27/24	
Toluene	ND	0.0250	1	09/23/24	09/27/24	
o-Xylene	ND	0.0250	1	09/23/24	09/27/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		99.5 %	70-130	09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	09/23/24	09/27/24	
Surrogate: Toluene-d8		100 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2439002
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		99.5 %	70-130	09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	09/23/24	09/27/24	
Surrogate: Toluene-d8		100 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: AF		Batch: 2438162
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		101 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: DT		Batch: 2439013
Chloride	6860	400	20	09/23/24	09/24/24	

 Earth Systems
 Project Name:
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 1910 Resource Ct
 Project Number:
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## CS-4 - 1' E409188-04

		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: IY		Batch: 2439002
Benzene	ND	0.0250	1	09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/27/24	
Toluene	ND	0.0250	1	09/23/24	09/27/24	
o-Xylene	ND	0.0250	1	09/23/24	09/27/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		98.9 %	70-130	09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	09/23/24	09/27/24	
Surrogate: Toluene-d8		101 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: BA		Batch: 2439002
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		98.9 %	70-130	09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	09/23/24	09/27/24	
Surrogate: Toluene-d8		101 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	.nalyst: AF		Batch: 2438162
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		102 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	.nalyst: DT		Batch: 2439013
Chloride	1340	200	10	09/23/24	09/23/24	· · · · · · · · · · · · · · · · · · ·



 Earth Systems
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CS-5 - 1' E409188-05

		2.07100 00					
Analyte	Result	Reporting Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: B	A		Batch: 2439002
Benzene	ND	0.0250	1		09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1		09/23/24	09/27/24	
Toluene	ND	0.0250	1		09/23/24	09/27/24	
o-Xylene	ND	0.0250	1		09/23/24	09/27/24	
p,m-Xylene	ND	0.0500	1		09/23/24	09/27/24	
Total Xylenes	ND	0.0250	1		09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		98.2 %	70-130		09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		09/23/24	09/27/24	
Surrogate: Toluene-d8		102 %	70-130		09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: B	A		Batch: 2439002
Gasoline Range Organics (C6-C10)	ND	20.0	1		09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		98.2 %	70-130		09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		09/23/24	09/27/24	
Surrogate: Toluene-d8		102 %	70-130		09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: Al	F		Batch: 2438162
Diesel Range Organics (C10-C28)	ND	25.0	1		09/21/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1		09/21/24	09/26/24	
Surrogate: n-Nonane		104 %	50-200		09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: D	Т		Batch: 2439013
Chloride	2690	200	10	)	09/23/24	09/23/24	

 Earth Systems
 Project Name:
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 Project Number:
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## CS-6 - 1' E409188-06

		E409188-06				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg Analyst: BA			Batch: 2439002	
Benzene	ND	0.0250	1	09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/27/24	
Toluene	ND	0.0250	1	09/23/24	09/27/24	
o-Xylene	ND	0.0250	1	09/23/24	09/27/24	
o,m-Xylene	ND	0.0500	1	09/23/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		98.6 %	70-130	09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	09/23/24	09/27/24	
Surrogate: Toluene-d8		98.8 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: BA		Batch: 2439002
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		98.6 %	70-130	09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	09/23/24	09/27/24	
Surrogate: Toluene-d8		98.8 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: AF		Batch: 2438162
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	·
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		101 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: DT		Batch: 2439013
Chloride	6940	400	20	09/23/24	09/24/24	

 Earth Systems
 Project Name:
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CS-7 - 1'

		E409188-07					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Batch: 2439002		
Benzene	ND	0.0250	1	1	09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	l	09/23/24	09/27/24	
Toluene	ND	0.0250	1	l	09/23/24	09/27/24	
o-Xylene	ND	0.0250	1	l	09/23/24	09/27/24	
p,m-Xylene	ND	0.0500	1	l	09/23/24	09/27/24	
Total Xylenes	ND	0.0250	1	l	09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		100 %	70-130		09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130		09/23/24	09/27/24	
Surrogate: Toluene-d8		101 %	70-130		09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	BA		Batch: 2439002
Gasoline Range Organics (C6-C10)	ND	20.0	1	Į.	09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		100 %	70-130		09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130		09/23/24	09/27/24	
Surrogate: Toluene-d8		101 %	70-130		09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: A	AF		Batch: 2438162
Diesel Range Organics (C10-C28)	62.7	25.0	1	1	09/21/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	[	09/21/24	09/26/24	
Surrogate: n-Nonane		104 %	50-200		09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: I	OT		Batch: 2439013
Chloride	6530	200	10	0	09/23/24	09/23/24	



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## CS-8 - 1'

## E409188-08

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: BA			Batch: 2439002
Benzene	ND	0.0250	1		09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1		09/23/24	09/27/24	
Toluene	ND	0.0250	1		09/23/24	09/27/24	
o-Xylene	ND	0.0250	1		09/23/24	09/27/24	
p,m-Xylene	ND	0.0500	1		09/23/24	09/27/24	
Total Xylenes	ND	0.0250	1		09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		98.3 %	70-130		09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130		09/23/24	09/27/24	
Surrogate: Toluene-d8		105 %	70-130		09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst:	BA		Batch: 2439002
Gasoline Range Organics (C6-C10)	ND	20.0	1		09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		98.3 %	70-130		09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130		09/23/24	09/27/24	
Surrogate: Toluene-d8		105 %	70-130		09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst:	AF		Batch: 2438162
Diesel Range Organics (C10-C28)	57.7	25.0	1		09/21/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1		09/21/24	09/26/24	
Surrogate: n-Nonane		100 %	50-200		09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst:	DT		Batch: 2439013
· · · · · · · · · · · · · · · · · · ·	6430	200	10		09/23/24	09/23/24	



 Earth Systems
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 Project Number:
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CS-9 - 1' E409188-09

		E407100-07					
Analyte	Result	Reporting Limit	Dilut	tion	Prepared	Analyzed	Notes
Analyte	Result	Limit	Dilui	uon	rrepared	Analyzed	notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: E	BA		Batch: 2439002
Benzene	ND	0.0250	1		09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1		09/23/24	09/27/24	
Toluene	ND	0.0250	1		09/23/24	09/27/24	
o-Xylene	ND	0.0250	1		09/23/24	09/27/24	
p,m-Xylene	ND	0.0500	1		09/23/24	09/27/24	
Total Xylenes	ND	0.0250	1		09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		97.7 %	70-130		09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		09/23/24	09/27/24	
Surrogate: Toluene-d8		104 %	70-130		09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: E	BA		Batch: 2439002
Gasoline Range Organics (C6-C10)	ND	20.0	1		09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		97.7 %	70-130		09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		09/23/24	09/27/24	
Surrogate: Toluene-d8		104 %	70-130		09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: A	ΛF		Batch: 2438162
Diesel Range Organics (C10-C28)	ND	25.0	1		09/21/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1		09/21/24	09/26/24	
Surrogate: n-Nonane		104 %	50-200		09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: [	)T		Batch: 2439013
Chloride	3600	200	10	)	09/23/24	09/23/24	



 Earth Systems
 Project Name:
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 Project Number:
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## CS-10 - 1' E409188-10

		2107100 10				
Analyte	Result	Reporting Limit	Dilut	tion Prepar	ed Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: BA		Batch: 2439002
Benzene	ND	0.0250	1	09/23/	24 09/27/24	
Ethylbenzene	ND	0.0250	1	09/23/	24 09/27/24	
Toluene	ND	0.0250	1	09/23/	24 09/27/24	
o-Xylene	ND	0.0250	1	09/23/	24 09/27/24	
p,m-Xylene	ND	0.0500	1	09/23/	24 09/27/24	
Total Xylenes	ND	0.0250	1	09/23/	24 09/27/24	
Surrogate: Bromofluorobenzene		97.0 %	70-130	09/23/	24 09/27/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130	09/23/	24 09/27/24	
Surrogate: Toluene-d8		103 %	70-130	09/23/	24 09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: BA		Batch: 2439002
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/	24 09/27/24	
Surrogate: Bromofluorobenzene		97.0 %	70-130	09/23/	24 09/27/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130	09/23/	24 09/27/24	
Surrogate: Toluene-d8		103 %	70-130	09/23/	24 09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: AF		Batch: 2438162
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/	24 09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/	24 09/26/24	
Surrogate: n-Nonane		100 %	50-200	09/21/.	24 09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439013
Chloride	317	100	5	09/23/	24 09/23/24	

Earth SystemsProject Name:RDX 28-111910 Resource CtProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno9/27/2024 6:08:18PM

## CS-11 - 1' E409188-11

		E407100-11					
		Reporting	<b></b>				
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	BA		Batch: 2439002
Benzene	ND	0.0250	1	1	09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	1	09/23/24	09/27/24	
Гoluene	ND	0.0250	1	1	09/23/24	09/27/24	
p-Xylene	ND	0.0250	1	1	09/23/24	09/27/24	
o,m-Xylene	ND	0.0500	1	1	09/23/24	09/27/24	
Total Xylenes	ND	0.0250	1	1	09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		99.0 %	70-130		09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130		09/23/24	09/27/24	
Surrogate: Toluene-d8		102 %	70-130		09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	BA		Batch: 2439002
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		99.0 %	70-130		09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130		09/23/24	09/27/24	
Surrogate: Toluene-d8		102 %	70-130		09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	AF		Batch: 2438162
Diesel Range Organics (C10-C28)	ND	25.0	1	1	09/21/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	ı	09/21/24	09/26/24	
Surrogate: n-Nonane		110 %	50-200		09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2439013
Chloride	754	100	5	-	09/23/24	09/23/24	



Earth SystemsProject Name:RDX 28-111910 Resource CtProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno9/27/2024 6:08:18PM

## SW-1 -0 - 1' E409188-12

		12407100-12				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Analyte	Result	Limit	Dilut	ion Prepared	Allalyzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2439002
Benzene	ND	0.0250	1	09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/27/24	
Toluene	ND	0.0250	1	09/23/24	09/27/24	
o-Xylene	ND	0.0250	1	09/23/24	09/27/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		96.6 %	70-130	09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	09/23/24	09/27/24	
Surrogate: Toluene-d8		99.5 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2439002
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		96.6 %	70-130	09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	09/23/24	09/27/24	
Surrogate: Toluene-d8		99.5 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: AF		Batch: 2438162
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		92.0 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2439013
Chloride	ND	20.0	1	09/23/24	09/23/24	



 Earth Systems
 Project Name:
 RDX 28-11

 1910 Resource Ct
 Project Number:
 01058-0007
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Gilbert Moreno
 9/27/2024 6:08:18PM

SW-2 -0 - 1' E409188-13

		12407100-13				
Analyte	Result	Reporting Limit	Dilut	tion Prepared	Analyzed	Notes
Allaryte		Limit		1	Allalyzed	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2439002
Benzene	ND	0.0250	1	09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/27/24	
Toluene	ND	0.0250	1	09/23/24	09/27/24	
o-Xylene	ND	0.0250	1	09/23/24	09/27/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		95.0 %	70-130	09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	09/23/24	09/27/24	
Surrogate: Toluene-d8		101 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2439002
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		95.0 %	70-130	09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	09/23/24	09/27/24	
Surrogate: Toluene-d8		101 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: AF		Batch: 2438162
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		102 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2439013
Chloride	ND	20.0	1	09/23/24	09/23/24	



 Earth Systems
 Project Name:
 RDX 28-11

 1910 Resource Ct
 Project Number:
 01058-0007
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Gilbert Moreno
 9/27/2024 6:08:18PM

## SW-3 -0 - 1' E409188-14

		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: IY		Batch: 2439002
Benzene	ND	0.0250	1	09/23/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/27/24	
Toluene	ND	0.0250	1	09/23/24	09/27/24	
o-Xylene	ND	0.0250	1	09/23/24	09/27/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		96.9 %	70-130	09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	09/23/24	09/27/24	
Surrogate: Toluene-d8		101 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2439002
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/27/24	
Surrogate: Bromofluorobenzene		96.9 %	70-130	09/23/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	09/23/24	09/27/24	
Surrogate: Toluene-d8		101 %	70-130	09/23/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: AF		Batch: 2438162
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/26/24	
Surrogate: n-Nonane		93.3 %	50-200	09/21/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2439013
Chloride	ND	20.0	1	09/23/24	09/23/24	

 Earth Systems
 Project Name:
 RDX 28-11

 1910 Resource Ct
 Project Number:
 01058-0007
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Gilbert Moreno
 9/27/2024 6:08:18PM

## SW-4 -0 - 1' E409188-15

	E-10/100-13				
Dk	Reporting		in Dune 1	A a large of	Nata
Result	Limit	Diluti	ion Prepared	Analyzed	Notes
mg/kg	mg/kg	A	Analyst: BA		Batch: 2439002
ND	0.0250	1	09/23/24	09/27/24	
ND	0.0250	1	09/23/24	09/27/24	
ND	0.0250	1	09/23/24	09/27/24	
ND	0.0250	1	09/23/24	09/27/24	
ND	0.0500	1	09/23/24	09/27/24	
ND	0.0250	1	09/23/24	09/27/24	
	95.2 %	70-130	09/23/24	09/27/24	
	96.3 %	70-130	09/23/24	09/27/24	
	101 %	70-130	09/23/24	09/27/24	
mg/kg	mg/kg	A	Analyst: BA		Batch: 2439002
ND	20.0	1	09/23/24	09/27/24	
	95.2 %	70-130	09/23/24	09/27/24	
	96.3 %	70-130	09/23/24	09/27/24	
	101 %	70-130	09/23/24	09/27/24	
mg/kg	mg/kg	A	Analyst: AF		Batch: 2438162
ND	25.0	1	09/21/24	09/26/24	_
ND	50.0	1	09/21/24	09/26/24	
	101 %	50-200	09/21/24	09/26/24	
mg/kg	mg/kg	A	Analyst: DT		Batch: 2439013
	ND	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           95.2 %         96.3 %           101 %         mg/kg           ND         20.0           95.2 %         96.3 %           101 %         101 %           mg/kg         mg/kg           ND         25.0           ND         50.0	Reporting           Result         Limit         Dilut           mg/kg         mg/kg         A           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           95.2 %         70-130           96.3 %         70-130           101 %         70-130           95.2 %         70-130           96.3 %         70-130           101 %         70-130           mg/kg         mg/kg           ND         25.0         1           ND         50.0         1	Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         09/23/24           ND         0.0250         1         09/23/24           ND         0.0250         1         09/23/24           ND         0.0500         1         09/23/24           ND         0.0250         1         09/23/24           ND         0.0250         1         09/23/24           95.2 %         70-130         09/23/24           96.3 %         70-130         09/23/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         09/23/24           95.2 %         70-130         09/23/24           95.2 %         70-130         09/23/24           96.3 %         70-130         09/23/24           101 %         70-130         09/23/24           101 %         70-130         09/23/24           mg/kg         mg/kg         Analyst: AF           ND         25.0         1         09/21/24           ND         50.0         1	Reporting         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         09/23/24         09/27/24           ND         0.0250         1         09/23/24         09/27/24           ND         0.0250         1         09/23/24         09/27/24           ND         0.0500         1         09/23/24         09/27/24           ND         0.0250         1         09/23/24         09/27/24           ND         0.0250         1         09/23/24         09/27/24           95.2 %         70-130         09/23/24         09/27/24           96.3 %         70-130         09/23/24         09/27/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         09/23/24         09/27/24           95.2 %         70-130         09/23/24         09/27/24           95.2 %         70-130         09/23/24         09/27/24           101 %         70-130         09/23/24         09/27/24           101 %         70-130         09/23/24         09/27/24



 Earth Systems
 Project Name:
 RDX 28-11
 Reported:

 1910 Resource Ct
 Project Number:
 01058-0007

 Carlsbad NM, 88220
 Project Manager:
 Gilbert Moreno
 9/27/2024 6:08:18PM

Carlsbad NM, 88220		Project Manager:	Gi	ilbert Moreno				9/2	27/2024 6:08:18PM
	7	Volatile Organic	c Compo	unds by EP	A 82601	В			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 (2439002-BLK1)						I	Prepared: 09	9/23/24 Ana	yzed: 09/27/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			
LCS (2439002-BS1)						I	Prepared: 09	9/23/24 Ana	yzed: 09/27/24
Benzene	2.36	0.0250	2.50		94.4	70-130			
Ethylbenzene	2.48	0.0250	2.50		99.1	70-130			
Toluene	2.41	0.0250	2.50		96.2	70-130			
o-Xylene	2.40	0.0250	2.50		96.2	70-130			
p,m-Xylene	4.77	0.0500	5.00		95.3	70-130			
Total Xylenes	7.17	0.0250	7.50		95.6	70-130			
Surrogate: Bromofluorobenzene	0.474		0.500		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			
LCS Dup (2439002-BSD1)						I	Prepared: 09	9/23/24 Ana	yzed: 09/27/24
Benzene	2.33	0.0250	2.50		93.0	70-130	1.49	23	
Ethylbenzene	2.44	0.0250	2.50		97.5	70-130	1.59	27	
Toluene	2.39	0.0250	2.50		95.7	70-130	0.563	24	
o-Xylene	2.44	0.0250	2.50		97.5	70-130	1.36	27	
p,m-Xylene	4.88	0.0500	5.00		97.5	70-130	2.28	27	
Total Xylenes	7.31	0.0250	7.50		97.5	70-130	1.97	27	
Surrogate: Bromofluorobenzene	0.483		0.500		96.6	70-130			

0.500

0.500

104

70-130

70-130



Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

0.519

0.509

Earth SystemsProject Name:RDX 28-11Reported:1910 Resource CtProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno9/27/2024 6:08:18PM

Nonhalogenated	Organics by	<b>EPA</b>	.8015D -	GRO

Analyst: IY

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

Blank (2439002-BLK1)						Prepared: 0	9/23/24	Analyzed: 09/27/24
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.479		0.500	95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500	100	70-130			
Surrogate: Toluene-d8	0.507		0.500	101	70-130			
LCS (2439002-BS2)						Prepared: 0	9/23/24	Analyzed: 09/27/24
Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	94.1	70-130			
Surrogate: Bromofluorobenzene	0.497		0.500	99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500	102	70-130			
Surrogate: Toluene-d8	0.514		0.500	103	70-130			
LCS Dup (2439002-BSD2)						Prepared: 0	9/23/24	Analyzed: 09/27/24
Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	95.9	70-130	1.86	20	
Surrogate: Bromofluorobenzene	0.491		0.500	98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500	102	70-130			
Surrogate: Toluene-d8	0.516		0.500	103	70-130			



Earth Systems	Project Name:	RDX 28-11	Reported:
1910 Resource Ct	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	9/27/2024 6:08:18PM

Carlsbad NM, 88220		Project Manager	r: Gi	lbert Moreno					9/27/2024 6:08:18PM
	Nonhal		Analyst: AF						
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2438162-BLK1)							Prepared: 0	9/21/24 /	Analyzed: 09/26/24
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	51.6		50.0		103	50-200			
LCS (2438162-BS1)							Prepared: 0	9/21/24 <i>A</i>	Analyzed: 09/26/24
Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
urrogate: n-Nonane	54.2		50.0		108	50-200			
LCS Dup (2438162-BSD1)							Prepared: 0	9/21/24 A	Analyzed: 09/26/24
Diesel Range Organics (C10-C28)	258	25.0	250		103	38-132	1.67	20	
urrogate: n-Nonane	55.0		50.0		110	50-200			



Earth Systems		Project Name: RDX 28-11							Reported:
1910 Resource Ct Carlsbad NM, 88220		Project Number: Project Manager:		01058-0007 Gilbert Moreno					9/27/2024 6:08:18PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	1				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2439013-BLK1)							Prepared: 0	9/23/24 A	nalyzed: 09/23/24
Chloride	ND	20.0							
LCS (2439013-BS1)							Prepared: 0	9/23/24 A	nalyzed: 09/23/24
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2439013-MS1)				Source:	E409188-	05	Prepared: 0	9/23/24 A	nalyzed: 09/23/24
Chloride	2990	200	250	2690	121	80-120			M4
Matrix Spike Dup (2439013-MSD1)				Source:	E409188-	05	Prepared: 0	9/23/24 A	nalyzed: 09/23/24
Chloride	2660	200	250	2690	NR	80-120	11.7	20	M4

### QC Summary Report Comment:

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



## **Definitions and Notes**

ſ	Earth Systems	Project Name:	RDX 28-11	
١	1910 Resource Ct	Project Number:	01058-0007	Reported:
١	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	09/27/24 18:08

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

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

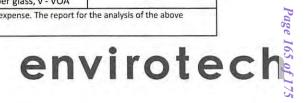
Note (1): Methods marked with \*\* are non-accredited methods.

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



	Clie	nt Inforn	nation			Invoice Informat	tion				Lab	Use	Onl	у				T	AT			Stat	e
Client: E	arth System	s R & R			C	ompany: WPX Energy Per	mian	La	ab V	VO#		J	ob N				1D	2D	3D	Std	NM	CO UT	TX
Project N	lame: RDX 2	8-11			A	ddress: 5315 Buena Vista D	r	E	4	109	188	5 0	nc	1	$x_0$	Ta		7		Х	X		
Project N	Nanager: Gill	pert Mor	eno		Ci	ity, State, Zip: Carlsbad, NN	1 88220																
	1910 Resou				<u>P</u>	Phone:						-	Anal	ysis	and	Met	hod				EP	A Progra	ım
	e, Zip: Carls		88220		Er	mail: jim.raley@dvn.com					-1										SDWA	CWA	RCRA
Phone:	832-541-77	19			\ \	/O: 21402114								4									
Email:	gmoreno@e	arthsys.r	net							115							- 4			- 1	Complianc	e Y	or N
										y 80		2	0	0.0	5	×	sals	Pkg		1	PWSID#		1 7
V T				Sam	ple Informa	tion				ROb	£	/80	826	e 30	N	05-1	Me	nion					
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lab Numb	er	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg				Remarks	
9:00	9/19/2024	S	1			CS-1		1			1				X						1	ncident #	
9:10	9/19/2024	S	1			CS-2		2			1				х						nAPI	P2423424	1961
9:20	9/19/2024	S	1			CS-3		3			1				х								
9:30	9/19/2024	S	1			CS-4		4			1				х	H							
9:40	9/19/2024	S	1			CS-5		5			1				X								
9:50	9/19/2024	S	1			CS-6		10			1				X								
10:00	9/19/2024	S	1			CS-7		7			1				х								
10:10	9/19/2024	5	1			CS-8		8			1				х								10
10:20	9/19/2024	S	1			CS-9		9			1				х								
10:30	9/19/2024	S	2			CS-10		10			1				х								
Addition	al Instructio	ns:																					
I, (field sam)		e validity and	d authenticity	of this same	ole. I am aware	that tampering with or intentionally m	islabeling the sa	ample loca	ation,	date o	or time	of coll	ection	is co	nsider	ed fra	ud and	l may	be grou	nds fo	r legal action	6	
A THE REAL PROPERTY.	ed Dy: (Signatur	e)	Date	20.24	Time 08:30	Received by: (Signature)	alec 9.	-20-2	4	ime	330										st be received o temp above 0 t		1 C. S. A. S. C.
Relinguish	ed by (Signatur	e)	es g	10:24	Time 830	Received by: (Signature)	Date		T	ime	330				Rece	oivec	oni	ice:		b Us	e Only		
	ed by: (Signatur			lo.ty	Time	Received by: (Signature)	14 9-	23-	24	ime					T1				T2	,		T3	
Relinquish	ed by: (Signatur	e)	Date Time Received by (Signature)			Date	- 10	T	Time					AVG	Ten	np °C	(	1					
Sample Matrix: S - Soll, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other				Con	tainer T	ype:	g-g	lass, p	- po	ly/pl						- VOA							
Note: Sam						er arrangements are made. Hazard										lient e	expen	se. Th	e repo	rt for	the analysis	of the ab	ove





Project Manager: Gilbert Moreno Address: 1910 Resource Ct City, State, Zip: Carlsbad, NM, 88220 Phone: 832-541-7719 City, State, Zip: Carlsbad, NM, 88220 Phone: 832-541-7719 Compliance \( \frac{1}{2} \) \\  Sample Information	Client Information				Invoice Information				Lab Use Only							TAT				State						
Address: 5315 Buena Vista Dr Project Manner (Blotz Moreno Address: 5315 Buena Vista Dr Project Manner (Blotz Moreno Address: 5315 Buena Vista Dr Project Manner (Blotz Moreno Address: 5315 Buena Vista Dr Project Manner (Blotz Moreno Address: 5315 Buena Vista Dr Project Manner (Blotz Moreno Address: 5315 Buena Vista Dr Project Manner (Blotz Moreno Address: 5315 Buena Vista Dr Project Manner (Blotz Moreno Address: 5315 Buena Vista Dr Project Manner (Blotz Moreno Wo: 21402114    William   Willia	Client: E	arth System	s R & R				Company: WPX Energy Permian			La	ab WO# Job N				Number			1D 2D 3D Std			Std	NMI COLUT I TX				
City, State, Zip: Carlsbad, NM, 88220   Phone: 832-541-719   Email: gmoreno@earthsys.net   Phone: 832-541-719   Email: gmoreno@earthsys.net   Phone: 832-541-719   Email: gmoreno@earthsys.net   Phone: 832-541-719   Pho							Address: 5315 Buena Vista Dr			F	2	10914X N			JUD 25011		57									
Address: 1910 Resource Ct Ctrick State, Zing Carlsbad NM, 85220 Phone: 832-541-7719 Email: gmorreno@earthsys.net  Sample Information  Incident #:  Remarks  Incident #:  Remarks  Incident #:  Incide	Project N	/lanager: Gill	bert Mor	eno			City,	State, Zip: Carlsbad,	NM 88220						20	UL.			-	-						
City, State, Zip. Carlsbad MM, 882/0   Final	Address: 1910 Resource Ct										Γ				Ana	lysis	and	Me	ethod				EPA Program			
Sample Information   Sample	City, State, Zip: Carlsbad NM, 88220				Email	: iim.raley@dvn.con	n							-										RCRA		
Sample Information  Time Sample Marrix Containers  Sample Information  Time Sample Marrix Containers  Sample Information  Time Sample Marrix Containers  Sample ID  S							_																1			
10:40 9/19/2024 S 1 SW-1	Email:	gmoreno@e	earthsys.	net									2										1	Complianc	e Y	or N
10:40 9/19/2024 S 1 SW-1													v 80.		1	0	0.0		×	als	Pkg			PWSID#		
10:40 9/19/2024 S 1 SW-1					Sam	ple Inforn	natior	1					30 b	£	802	8260	300	N.	1-50	Met	nion					
10:50 9/19/2024 S 1 SW-1 IZ 0-1 X NAPP2423424961  11:00 9/19/2024 S 1 SW-2 I3 0-1 X NAPP2423424961  11:10 9/19/2024 S 1 SW-3 I Y O-1 X NAPP2423424961  11:20 9/19/2024 S 1 SW-4 S O-1 X NAPP2423424961  11:20 9/19/2024 S 1 SW-4 S O-1 X NAPP2423424961  11:20 9/19/2024 S 1 SW-4 S O-1 X NAPP2423424961  11:20 9/19/2024 S 1 SW-4 SO-1 X NAPP2423424961  11:20 9/19/2024 S 1 SW-4 SO-1 X NAPP2423424961  11:20 9/19/2024 S 1 SW-3 SW-4 SO-1 X NAPP2423424961  11:20 9/19/2024 S 1 SW-4 SW-3 SW-3 SW-4 SW-3 SW-3 SW-3 SW-3 SW-4 SW-3 SW-3 SW-3 SW-3 SW-3 SW-3 SW-3 SW-3		Date Sampled	Matrix				S	ample ID		Filter	Lab Numbe	er	DRO/OF	Depth (	втех ь,	VOC by	Chloride	верос	TCEQ 100	RCRA 8	Cation/A				Remarks	
11:00 9/19/2024 S 1 SW-3 I 4 O-1 X X I 1:20 9/19/2024 S 1 SW-3 I 4 O-1 X X I 1:20 9/19/2024 S 1 SW-4 I 5 O-1 X X I 1:20 9/19/2024 S 1 SW-4 I 5 O-1 X X I 1:20 9/19/2024 S 1 SW-4 I 5 O-1 X X I 5 O-1 X X I 5 O-1 X I 5 O	10:40	9/19/2024	S	1				CS-11			1)			1				X						h	ncident #	:
Additional Instructions:  1. (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  Sampled by:  GM  Relinquished by: (Signature)  Date  1. Time  1. 2.0.2.1 Time  1. 2.0.2.1 Time  1. 3.0.2.1 Time  1. 3.0.2.1 Time  1. 4.0.2.1 Time  1. 4.0.2.1 Time  1. 5.0.2.1 Time  2. 5.0.2.1 Time  3. 5.0.2.1 Time  4. 5.0.2.1 Time  4. 5.0.2.2 Time  4. 5.0.2 Time  3. 5.0.2 Time  4. 5.0.2 Time  5. 5.0	10:50	9/19/2024	S	1				SW-1			12			0-1				X						nAPI	2423424	1961
Additional Instructions:  I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  Sampled by:GM  Relinquished by:Signature)  Q. 20.24   Date   Time   Received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on cubascular days.  Relinquished by:Signature)  Q. 20.24   Date   Time   Received by:Signature)  Q. 20.24   Date   Time   Received by:Signature)  Q. 20.24   Date   Time   Received on ice:	11:00	9/19/2024	S	1				SW-2			13			0-1				X								
Additional Instructions:  I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  Sampled by:GM  Relinquished by: (Signature)  Date  9.20.24  Date  9.20.24  Date  Time  9.20.24  Date	11:10	9/19/2024	S	1				SW-3			14			0-1				X								
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  Sampled by:GM	11:20	9/19/2024	S	1				SW-4			15			0-1				X								
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  Sampled by:GM_  Relinquished by: (Signature)																										
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  Sampled by:GM										Щ		1														
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  Sampled by:GM_  Relinquished by: (Signature)		Colo	id																							
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Sampled by:GM	Addition	al Instructio	ons:																							
Relinquished by (Signature)  Date  Time  Q-10-24  Received by (Signature)  Date  Time  Q-10-24  Received by (Signature)  Date  Time  Received by (Signature)  Received on ice:			e validity an	d authenticit	y of this sam	ple. I am awa			ly mislabeling t	he sa	mple locat	tion,	date	or time	e of co	llectio	n is co									
Whether Gonzales 9-0019 1000 1.31. 9-10-14 1830 Received on ice: W/N	Cin	oring				Time 08:3				Pate 9-	20-24	1	Time	73	0			sample	ed or re	ceived	A					Company of the Compan
Relinguished by: (Signature)  Date  Retgived by: (Signature)  Date  Time  Date  Time	Michelle Gonzales 9-20:29			0 1	1.X.		9.	10.2			83	00			Rec	eive	d on i	ice:			e Only					
	Reling Ished by: (Signature) 9-20.24		1240	0	Keeplegh 11 F	tes	9-	23-20	_		530	0			T1				<u>T2</u>			ТЗ	3			
Relinquished by: (Signature)  Date  Time  Received by/(Signature)  Date  Time  AVG Temp °C	Relinquished by: (Signature) Date Time			Time	R	(eceived by (Signature)														1						
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		_	_							





envirotech Inc.

Printed: 9/23/2024 10:45:34AM

## **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Earth Systems	Date Received:	09/23/24	05:30		Work Order ID:	E409188
Phone:	832-541-7719	Date Logged In:	09/20/24	15:05		Logged In By:	Caitlin Mars
Email:	gmoreno@earthsys.net	Due Date:	09/27/24	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 mat	ch the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Co	<u>ourier</u>		
4. Was tl	ne COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes				
5. Were	all samples received within holding time?  Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic	•	Yes	-		<u>Comment</u>	s/Resolution
	Turn Around Time (TAT)						
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample							
	sample cooler received?		Yes				
•	was cooler received in good condition?		Yes				
9. Was tl	ne 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				
	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes C				
	Container	<u> </u>	<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 contain		Yes				
Field La							
	e field sample labels filled out with the minimum info	rmation:					
	Sample ID?		Yes				
	Date/Time Collected?		Yes				
	Collectors name?		No				
	Preservation	10					
	s the COC or field labels indicate the samples were pr	eserved?	No				
	sample(s) correctly preserved?	4_1_9	NA N				
	o filteration required and/or requested for dissolved m	ietais?	No				
	ase Sample Matrix	_					
	s the sample have more than one phase, i.e., multiphas		No				
27. If ye	s, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcont	ract Laboratory						
	samples required to get sent to a subcontract laborator a subcontract laboratory specified by the client and if	-	No NA	Subcontract Lab:	: NA		
Client l	Instruction						
CHCHE	instruction						

Date

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

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

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

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

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

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

QUESTIONS

Action 399461

### **QUESTIONS**

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	399461
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites				
Incident ID (n#)	nAPP2423424961			
Incident Name	NAPP2423424961 RDX FEDERAL 28 #011 @ 30-015-42109			
Incident Type	Produced Water Release			
Incident Status	Remediation Closure Report Received			
Incident Well	[30-015-42109] RDX FEDERAL 28 #011			

Location of Release Source				
Please answer all the questions in this group.				
Site Name	RDX FEDERAL 28 #011			
Date Release Discovered	08/18/2024			
Surface Owner	Federal			

Incident Details				
Please answer all the questions in this group.				
Incident Type	Produced Water Release			
Did this release result in a fire or is the result of a fire	No			
Did this release result in any injuries	No			
Has this release reached or does it have a reasonable probability of reaching a watercourse	No			
Has this release endangered or does it have a reasonable probability of endangering public health	No			
Has this release substantially damaged or will it substantially damage property or the environment	No			
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No			

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Well   Crude Oil   Released: 1 BBL   Recovered: 1 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Well   Produced Water   Released: 5 BBL   Recovered: 1 BBL   Lost: 4 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

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

QUESTIONS, Page 2

Action 399461

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	11 0,1411 07 000
QUESTI	ONS (continued)
Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289  Action Number: 399461  Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of led or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or

Name: James Raley Title: EHS Professional

Email: jim.raley@dvn.com Date: 11/05/2024

Released to Imaging: 11/6/2024 10:35:29 AM

I hereby agree and sign off to the above statement

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

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

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 399461

#### **QUESTIONS** (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	399461
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

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

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be pro	ovided to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil conta	amination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each	h, in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	23100
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	55520
GRO+DRO (EPA SW-846 Method 8015M)	39749
BTEX (EPA SW-846 Method 8021B or 8260B)	64.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes co which includes the anticipated timelines for beginning and completing the remediation.	completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	09/17/2024
On what date will (or did) the final sampling or liner inspection occur	09/19/2024
On what date will (or was) the remediation complete(d)	10/04/2024
What is the estimated surface area (in square feet) that will be reclaimed	2143
What is the estimated volume (in cubic yards) that will be reclaimed	318
What is the estimated surface area (in square feet) that will be remediated	2143
What is the estimated volume (in cubic yards) that will be remediated	140
These estimated dates and measurements are recognized to be the best guess or calculate	tion at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally adju	usted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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

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

QUESTIONS, Page 4

Action 399461

**QUESTIONS** (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	399461
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

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

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

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

I hereby agree and sign off to the above statement

Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 11/05/2024

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

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

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

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

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

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

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Action 399461

<b>QUESTIONS</b>	(continued)
QUESTIONS!	COH I III I I I I C C I I

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	399461
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

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

**District I** 

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

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

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Action 399461

QUESTIONS (	(continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	399461
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	387061
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/20/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	2143

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission  Yes		
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	2143	
What was the total volume (cubic yards) remediated	140	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	0	
What was the total volume (in cubic yards) reclaimed	0	
Summarize any additional remediation activities not included by answers (above)	The Site was remediated according to Site Closure Criteria and has been backfilled with clean, locally sourced material.	

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

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Email: jim.raley@dvn.com
Date: 11/05/2024

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

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Action 399461

**QUESTIONS** (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	399461
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

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

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

CONDITIONS

Action 399461

### **CONDITIONS**

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	399461
	Action Type:
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#### CONDITIONS

Created By	y Condition	Condition Date
scwells	None	11/6/2024